



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

**ELECTRICAL ADMINISTRATIVE BOARD**  
Conference Room – 3  
Okemos Office Building  
2501 Woodlake Circle, Okemos, Michigan

**AGENDA**

November 7, 2013  
9:30 a.m.

1. Call to order and determination of quorum
2. Approval of Agenda (page 1 - 2)
3. Approval of Minutes – August 22, 2013 (pages 3 - 8)
4. Approval of 2014 Electrical Administrative Board Meeting Schedule (page 9)
5. Successful Examination Applicants – (pages 10 - 18)
  - A. Contractors Document E-13-62A
  - B. Master Electrician Document E-13-62B
  - C. Journeyman Document E-13-62C
6. Applicants appearing before the board (pages 19 -248)
  - A. John M. Carens Journeyman Electrician Examination Document E-13-63
  - B. George H. West Journeyman Electrician Examination Document E-13-64
  - C. Aaron T. Kranz Journeyman Electrician Examination Document E-13-65
  - D. Garth L Ryan Journeyman Electrician Examination Document E-13-66
  - E. Michael A. Rotz Journeyman Electrician Examination Document E-13-67
  - F. Sixto A. Amaya Journeyman Electrician Examination Document E-13-68
  - G. West W. Whitehead Journeyman Electrician Examination Document E-13-69
  - H. Jeremy R. Benjamin Journeyman Electrician Examination Document E-13-70
  - I. Jalloul Montacer Journeyman Electrician Examination Document E-13-71
  - J. Robert W Dombrowski Master Electrician Examination Document E-13-72
  - K. Todd J. Volling Master Electrician Examination Document E-13-73
  - L. Aaron D. Anderson Master Electrician Examination Document E-13-74
  - M. Keith S. Shufit Master Electrician Examination Document E-13-75

*Providing for Michigan's Safety in the Built Environment*

|  |  |                  |
|--|--|------------------|
| N. Jonathon Althouse/<br>Truman Surbrook/MSU       | Course Approval, Journeyman Examination<br>Prep Course             | Document E-13-76 |
| O. Larry Van Wert                                  | Course Approval, Journeyman Examination<br>Prep Course             | Document E-13-77 |
| P. Larry Van Wert                                  | Course Approval, Master Examination<br>Prep Course                 | Document E-13-78 |
| Q. Sherrill Irish/<br>Delta College                | Course Approval, Journey/Master<br>Examination Prep Course         | Document E-13-79 |
| R. Richard Fulton/<br>National Time & Signal Corp. | Fire Alarm Specialty Technician<br>Apprenticeship Training Program | Document E-13-80 |

7. Unfinished Business

8. New Business

9. Legislative Update

10. Public Comment

11. Next Meeting – February 20, 2014

12. Adjournment



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

## **ELECTRICAL ADMINISTRATIVE BOARD**

Conference Room 3  
2501 Woodlake Circle  
Okemos, Michigan 48864

### **MINUTES**

August 22, 2013

9:30 a.m.

#### **MEMBERS PRESENT**

Mr. Ernest Harju  
Mr. Thomas Erdman, Chair  
Mr. Robert Kupris  
Mr. Richard Long  
Mr. Dave Vallier  
Mr. David Williams  
Mr. Corey Hannahs  
Mr. Rich Miller

#### **MEMBERS ABSENT**

Mr. Rowland Cornish III  
Mr. Alan Kuipers

#### **DEPARTMENT PERSONNEL ATTENDING**

Mr. Irvin Poke, Director, BCC  
Mr. Dan O'Donnell, Chief, Electrical Division  
Mr. Jim Hennesey, Assistant Chief, Electrical Division  
Ms. Toni Nelson, Electrical Division Secretary  
Mr. Keith Lambert, Deputy Director, BCC

#### **OTHERS IN ATTENDANCE**

Kevin Ryan  
Joseph Fischer  
Roy Lemke  
T. Josh Boling  
Mark Nickolauson

Glen Bos  
Ionaton Bogde  
Brian Hillis, Consumer Energy  
Dave Mattson, Lansing Community College  
George Little, RECI

*Providing for Michigan's Safety in the Built Environment*

LARA is an equal opportunity employer  
Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.  
P.O. BOX 30254 • LANSING, MICHIGAN 48909  
www.michigan.gov/bcc • Telephone (517) 241-9302 • Fax (517) 241-9570

1. **Call to Order and Determination of Quorum**

The meeting was called to order at 9:30 a.m. by Mr. Thomas Erdman, Chairperson. Roll was taken and it was determined a quorum was present.

2. **Approval of Agenda**

Board member Long moved to approve the agenda, Board member Williams seconded the motion. **MOTION CARRIED.**

3. **Approval of Minutes**

The minutes of the May 23, 2013 meeting were reviewed. Board member Williams moved to recommend approval of the minutes as written, seconded by Board member Hannahs. **MOTION CARRIED.**

4. **Successful Examination Applicants, Document E-13-38A through E-13-38E**

Chair, Tom Erdman recommended approval of documents E-13-38A through E-13-38E, successful examination applicants, as one, motion to approve made by Board member Long, seconded by Board member Harju. **MOTION CARRIED.**

5. **Applicants Appearing Before The Board**

A. **Brian P. Ackland, Journeyman Electrician Examination - Document E-13-39.**

Mr. Brian Ackland was not present. Staff presented findings and recommendations. Board member Harju, moved to allow Mr. Ackland to sit for the journeyman examination, seconded by Board member Hannahs. **MOTION CARRIED.**

B. **Ionaton Bogde, Journeyman Electrician Examination - Document E-13-40**

Mr. Ionaton Bogde was present. Staff presented findings and recommendations. Board member Hannahs moved to allow Mr. Bogde to sit for the journeyman examination, seconded by Board member Williams. **MOTION CARRIED.**

C. **Glenn M. Bos, Journeyman Electrician Examination - Document E-13-41**

Mr. Glenn Bos was present. Staff presented findings and recommendations. After some discussion, Board member Vallier moved to allow Mr. Bos to sit for the journeyman examination, seconded by Board member Harju. **MOTION CARRIED.**

D. **Joseph F. Fischer, Journeyman Electrician Examination - Document E-13-42**

Mr. Joseph Fischer was present. Staff presented findings and recommendations. After some discussion, Board member Hannahs moved to allow Mr. Fischer to sit for the journeyman examination, seconded by Board member Long. **MOTION CARRIED.**

- E. **Jeremy R. Garrett, Journeyman Electrician Examination - Document E-13-43**  
Mr. Jeremy Garrett was not present. Staff presented findings and recommendations. After some discussion, Board member Vallier moved to allow Mr. Garrett to sit for the journeyman examination, seconded by Board member Williams. **MOTION CARRIED.**
- F. **Roy A. Lemke, Journeyman Electrician Examination - Document E-13-44.**  
Mr. Roy Lemke was present. Staff presented findings and recommendations. Board member Williams moved to allow Mr. Lemke to sit for the journeyman electrician examination, seconded by Board member Vallier. **MOTION CARRIED.**
- H. **Mark D. Nickolauson, Journeyman Electrician Examination - Document E-13-46**  
Mr. Mark Nickolauson was present. Staff presented findings and recommendations. After some discussion, Board member Long moved to allow Mr. Nickolauson to sit for the journeyman electrician examination, seconded by Board member Williams. **MOTION CARRIED**
- I. **Carlos T. Payne, Journeyman Electrician Examination - Document E-13-47**  
Mr. Carlos Payne was not present. Staff presented findings and recommendations. Board member Vallier moved to allow Mr. Payne to sit for the journeyman electrician examination, seconded by Board member Long. **MOTION CARRIED**
- J. **Karl L. Rajala, Journeyman Electrician Examination - Document E-13-48**  
Mr. Karl Rajala was not present. Staff presented findings and recommendations. After some discussion, Board member Harju moved to allow Mr. Rajala to sit for the journeyman electrician examination, seconded by Board member Vallier. **MOTION CARRIED**
- K. **Timothy A. Pinney, Master Electrician Examination - Document E-13-49**  
Mr. Timothy Pinney was not present. Staff presented findings and recommendations. After some discussion, Board member Williams moved to allow Mr. Pinney to sit for the master electrician examination, seconded by Board member Hannahs. **MOTION CARRIED**
- L. **Timothy J. Boling, Master Electrician Examination - Document E-13-50**  
Mr. Timothy Boling was present. Staff presented findings and recommendation. Mr. Boling distributed additional paperwork to the members of the board. There was some discussion and questions concerning experience and the lack of obtaining experience under a master rather than working for himself. Board member Vallier moved to deny Mr. Boling to sit for the master electrician examination for lack of verified experience, seconded by Board member Long. Offer was made to allow him to sit for the electrical journeyman examination, Mr. Boling stated he was not interested in becoming a journeyman electrician. **MOTION CARRIED.**

- M. **Joungcho Choi, Master Electrician Examination - Document E-13-51**  
Mr. Joungcho Choi was not present. Staff presented findings and recommendations. After some discussion, Board member Hannahs moved to deny Mr. Choi to sit for the master electrician examination, however approve for the journeyman electrician examination, seconded by Board member Williams. **MOTION CARRIED**
- N. **Kevin O. Ryan, Master Electrician Examination - Document E-13-52**  
Mr. Kevin Ryan was present. Staff presented findings and recommendations. After some discussion, Board member Harju moved to allow Mr. Ryan to sit for the master electrician examination, seconded by Board member Vallier. **MOTION CARRIED**
- O. **Curtis L. Morey, Master Electrician Examination - Document E-13-53**  
Mr. Curtis Morey was not present. Staff presented findings and recommendations. After some discussion, Board member Vallier moved to allow Mr. Morey to sit for the master electrician examination, seconded by Board member Harju. **MOTION CARRIED**
- P. **Greg A. Van de Graaf, Master Electrician Examination - Document E-13-54**  
Mr. Greg Van de Graaf was not present. Staff presented findings and recommendations. After some discussion, Board member Williams moved to allow Mr. Van de Graaf to sit for the master electrician examination, seconded by Board member Hannahs. **MOTION CARRIED**
- Q. **Angel M. Martinez, Master Electrician Examination - Document E-13-55**  
Mr. Angel Martinez was not present. Staff presented findings and recommendations. After some discussion, Board member Long moved to allow Mr. Martinez to sit for the master electrician examination, seconded by Board member Vallier. **MOTION CARRIED**
- R. **Roy T. Pingel, Master Electrician Examination – Document E-13-56**  
Mr. Roy Pingel was not present. Staff presented findings and recommendations. After some discussion, Board member Hannahs moved to allow Mr. Pingel to sit for the master electrician examination, seconded by Board member Williams. **MOTION CARRIED**
- S. **Timothy J. Oudbier, Master Electrician Examination – Document E-13-57**  
Mr. Timothy Oudbier was not present. Staff presented findings and recommendations. After some discussion, Board member Williams moved to allow Mr. Oudbier to sit for the master electrician examination, seconded by Board member Harju. **MOTION CARRIED**
- T. **Joseph C.K. Sayer, Journeyman Electrician Exam Prep Course– Document E-13-58**  
Mr. Joseph Sayer was not present. Staff presented findings and recommendations. After some discussion, Board member Long moved to allow Mr. Sayer to offer and teach the proposed exam prep course, seconded by Board member Hannahs. **MOTION CARRIED**

U. **Joseph C.K. Sayer, Master Electrician Exam Prep Course – Document E-13-59**

Mr. Joseph Sayer was not present. Staff presented findings and recommendations. After a brief discussion, Board member Hannahs moved to allow Mr. Sayer to offer and teach the proposed exam prep course, seconded by Board member Williams. **MOTION CARRIED**

V. **Norman Ross, Master/Journeyman Exam Prep Course – Document E-13-60**

Mr. Norman Ross was not present. Staff presented findings and recommendations. After a brief discussion, Board member Vallier moved to allow Mr. Ross to offer and teach the proposed exam prep course, seconded by Board member Hannahs. **MOTION CARRIED**

W. **Christopher O'Connor, Journeyman Electrician Examination–Document E-13-61**

Mr. Christopher O'Connor was present via telephone conference call from Afghanistan, at 10:00 a.m. where he is currently working. Staff presented findings and recommendations. Mr. O'Connor's step-daughter brought additional paperwork, which was copied and distributed to all of the Board members. Board members took a few minutes to review the additional documents. The documents submitted at the meeting contained the notarized letters that staff had requested previously. After some discussion and questions Board member Long moved to allow Mr. O'Connor to sit for the journeyman electrician examination, seconded by Board member Williams. **MOTION CARRIED.** An admission card was printed and given to the step-daughter.

6. **Unfinished Business** - None

7. **New Business** – None

8. **Legislative Updates** – None

9. **Public Comment** – Board member Hannahs asked if the 2011 NEC had been adopted. He was informed by Mr. O'Donnell it was adopted on July 1, 2013 and that a 2011 approved code update course will be required for the 2015 license renewals. Exams will be over the 2011 NEC starting with the November 2013 examinations.

Mr. Williams asked who from the Electrical Administrative Board would sit on the MRC Code Advisory Committee. Was told Board member Hannahs will sit on that board.

Mr. Little asked when the electrical portion of the MRC would be addressed in the MRC Code Advisory Committee meetings, answer was that there is no set schedule at this point.

10. **Next Meeting** – Novmeber 7, 2013
11. **Adjournment** – 10:47 a.m. Board member Long moved to adjourn, seconded by Board member Hannahs. **MOTION CARRIED.**

---

Thomas Erdman, Chair

Date

**DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS**  
**BUREAU OF CONSTRUCTION CODES**  
Electrical Division  
2501 Woodlake Circle  
Okemos, MI 48864  
(517) 241-9330

**2014 Schedule of Electrical Board Meetings**  
**BOARD MEETINGS**

| <b>Board Date</b>           | <b>Location</b>            | <b>Time</b> |
|-----------------------------|----------------------------|-------------|
| Thursday, February 20, 2014 | Okemos – Conference Room 3 | 9:30 AM     |
| Thursday, May 22, 2014      | Okemos – Conference Room 3 | 9:30 AM     |
| Thursday, August 7, 2014    | Okemos – Conference Room 3 | 9:30 AM     |
| Thursday, November 6, 2014  | Okemos – Conference Room 3 | 9:30 AM     |

November 7, 2013

The Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, Electrical Division, has issued licenses to the following applicants who received a passing score for the examination taken in Lansing on September 24, 2013.

Contractor License

|                              |                      |
|------------------------------|----------------------|
| ANDERSON, PETER J.           | MARQUETTE, MI        |
| BELDYHA, NICHOLAS P.         | DEWITT, MI           |
| BENNETT, DANIEL K.           | JENISON, MI          |
| BRADLEY, KURTIS W.           | MIDLAND, MI          |
| BURGEN, CLARENCE BEAU        | ANN ARBOR, MI        |
| CHRISTIAN, JOSHUA R.         | ONSTED, MI           |
| CRITTENDEN, NATHAN R.L.      | SPRINGPORT, MI       |
| CAMPBELL II, CURTIS L.       | SYLVAN LAKE, MI      |
| CRITTENDEN JR. RICHARD L.    | CARO, MI             |
| D'AGOSTINO, MICHAEL P.       | ST. CLAIR SHORES, MI |
| DAMGHANI, MOHAMMAD           | GRAND RAPIDS, MI     |
| DAN, EMANUEL                 | LIVONIA, MI          |
| DZIUBAN, CHARLES N.          | TWINING, MI          |
| FOSTER, JAMES D.             | ALMA, MI             |
| GEATCHES, CRAIG A.           | MACOMB, MI           |
| HEYBOER, BRUCE A.            | WAYLAND, MI          |
| HIBBARD, GREGORY M.          | SAGINAW, MI          |
| HIXSON, MICHAEL C.           | MADISON HEIGHTS, MI  |
| HURST, WILLIAM M.            | GRAND RAPIDS, MI     |
| KENT, STEPHEN C.             | HOLT, MI             |
| KYLLONEN, JEFFREY N.         | MARQUETTE, MI        |
| LANDA, SANTO J.              | CHESTERFIELD, MI     |
| LUBACZEWSKI, SCOTT C.        | CARO, MI             |
| LUDWIG, MICHAEL B.           | CLARKSTON, MI        |
| LYALL, MICHAEL               | GARDEN CITY, MI      |
| MARTINEZ, ANGEL M.           | WALLINGFORD, CT      |
| MARTINI, ANDY J.             | WESTLAND, MI         |
| PAGELS-PERRAULT, JEREMIAH C. | STURGIS, MI          |
| POLEGA, THOMAS J.            | PORT AUSTIN, MI      |
| PYLES, RICHARD L.            | MIDLAND, MI          |
| ROGERS, ROY J.               | CALEDONA, MI         |
| RUSSCHER, BRENT D.           | HAMILTON, MI         |
| SMITH, LLOYD R.              | MELROSE, MA          |
| SPENCER, ANTHONY W.          | DEARBORN, MI         |
| SUSALLA, RANDY P.            | RUTH, MI             |
| THOMAS, GEORGE A.            | WEST OLIVE, MI       |
| TJAPKES, CHARLES L.          | MUSKEGON, MI         |
| VOGEL, MATTHEW T.            | MT. PLEASANT, MI     |

LICENSE REVIEW

E-13-62A

November 7, 2013

The Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, Electrical Division, has issued licenses to the following applicants who received a passing score for the examination taken in Lansing on September 24, 2013.

Contractor License

WEATHERS, ELAINE E.  
WEEBER, JOHN N.  
WIERSMA, DOUGLAS T.  
WRIGHT, BELINDA K.  
YEARLING, STEVEN D.

LIVONIA, MI  
WALKER, MI  
KENTWOOD, MI  
SWARTZ CREEK, MI  
NORTH ADAMS, MI

The Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, Electrical Division, has issued licenses to the following applicants who received a passing score for the examination taken in Lansing on August 29, 2013.

Master Electrician

|                           |                     |
|---------------------------|---------------------|
| ADAMS, AUSTIN E           | GLADWIN MI          |
| ANTKOWIAK, DAVID A        | MILAN MI            |
| ASH, LANCE D              | FLINT MI            |
| BAGWELL, MARY J           | BROWNSTOWN TWP MI   |
| BELL, MARTIN E            | WESTLAND MI         |
| BERG, NATHAN L            | COOKS MI            |
| BIERLEIN, ADAM T          | FRANKENMUTH MI      |
| BIERSTETEL, MITCHELL J    | FOWLER MI           |
| CALLAWAY, STEVE M         | SHELBY TWP MI       |
| CARROLL, MARK V           | FARMINGTON HILLS MI |
| CLAIRMONT, RONALD LEO III | WAYLAND MI          |
| CLINE, NANCY L            | LIVONIA MI          |
| COE, MICHAEL J            | WILLIAMSTON MI      |
| CRANDALL, MASON K         | MARSHALL MI         |
| CURE, JASON E             | JACKSON MI          |
| DALY, KIP L               | EATON RAPIDS MI     |
| DAY, KELLY J              | HOWELL MI           |
| DUCLOS, JOHN D            | SAGINAW MI          |
| EVERTS, JOHN E            | ZEELAND MI          |
| FOUNTAIN, SCOTT WILLIAM   | MONROE MI           |
| GERKEN, STEVEN T          | NAPOLEON OH         |
| HAMILTON, JIMMY DEWAYNE   | BIG RAPIDS MI       |
| HOFFMAN, DAVID S          | WATERFORD MI        |
| HOLMES, ANTHONY L         | TROY MI             |
| JACQUES, DANIEL R         | GRAND BLANC MI      |
| JACQUES, DAVID M          | MACOMB MI           |
| KAVANAGH, TROND C         | EMMETT MI           |
| KEY, JONATHAN D           | WYOMING MI          |
| KRAUSE, MICHAEL J         | WARREN MI           |
| KRETSCHMAN, JEREMIE L     | CONKLINE MI         |
| LEVI, KEVIN W             | LAPEER MI           |
| MALLOY, SCOTT B           | MANISTIQUE MI       |
| MANNE, ERIC S             | MIDDLEVILLE MI      |
| MARTINEZ, ANGEL M         | WALLINGFORD CT      |
| MATTHEWS, DARREN J        | LAKELAND MI         |
| MIEKSZTYN, ADAM J         | ST CLAIR MI         |
| MORALES, HENRY I          | FLINT MI            |
| MORRISON, DONALD G        | CLINTON TWP MI      |
| MUSTA, PHILLIP I          | LINCOLN PARK MI     |

LICENSE REVIEW  
November 7, 2013

E-13-62B

The Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, Electrical Division, has issued licenses to the following applicants who received a passing score for the examination taken in Lansing on August 29, 2013.

Master Electrician

|                      |                     |
|----------------------|---------------------|
| NOVACK, JEFFREY P    | INTERLOCHEN MI      |
| OUDBIER, TIMOTHY J   | DORR MI             |
| PEASE, ALLEN E       | MANCELONA MI        |
| PECKAT, JON R        | ST HELEN MI         |
| PINGEL, ROY T        | NILES MI            |
| REA, PAUL M          | ROCHESTER HILLS MI  |
| REGINALDO, ORLANDO G | ST CLAIR SHORES MI  |
| RHOADES, TIMOTHY R   | INDIANAPOLIS IN     |
| RIDENOUR, DENNIS K   | EATON RAPIDS MI     |
| RUSSCHER, TIM W      | HAMILTON MI         |
| SCAFFIDI, ANTHONY    | RICHFIELD WI        |
| SCHMIDT, TERRY J     | PINCONNING MI       |
| SCRUGGS, NANCY K     | LIVONIA MI          |
| SIBEL, RYAN M        | WHITE LAKE MI       |
| SILVERS, CARL E      | FARMINGTON HILLS MI |
| SMITH, AARON C       | PORTLAND MI         |
| SQUANDA, VERN F      | VASSAR MI           |
| TAMOU, STEVE         | STERLING HEIGHTS MI |
| TENBRINK, ARTHUR E   | MORRICE MI          |
| TRUDELL, JASON L     | LINWOOD MI          |
| VARIOT, RICHARD W    | CANTON MI           |
| VINCENT, ALLEN H     | SAGINW MI           |
| WESTLAKE, JUSTIN G   | WATERFORD MI        |
| WYSOCKI, JOHN T III  | ALPENA MI           |
| YOUSIF, SAAD M       | SERLING HEIGHTS MI  |

LICENSE REVIEW

E-13-62C

November 7, 2013

The Department of Licensing and Regulatory Affairs, Electrical Division, confirms that the applicants listed below received a passing score of the examination taken in Lansing, August 29, 2013

Journeyman Electrician

|                       |                 |
|-----------------------|-----------------|
| ABRAHAM, JOSEPH       | SOUTHFIELD MI   |
| ANGNER, SAMUEL N      | LIVONIA MI      |
| AUTRY, ROBERT D       | MIDLAND MI      |
| BARRIGER, ROBERT T    | TOLEDO OH       |
| BASS, DEREK A         | BELLEVILLE MI   |
| BECK, DAVID M         | METAMORA OH     |
| BOLLIN, JORDAN S      | BLISSFIELD MI   |
| BOZEK, JACOB A        | YPSILANTI MI    |
| BREWER, DENNIS L      | CURTICE OH      |
| BRUDZYNSKI, ANTHONY J | GIBRALTAR MI    |
| BULLER, TOM E         | NILES MI        |
| BUTTERS, QUINT G      | MARSHALL MI     |
| CASTELLANOS, RAFAEL   | DEARBORN MI     |
| CHAPIN, JOSEPH M      | HUDSONVILLE MI  |
| COBB, ANDREW J        | BUCKLEY MI      |
| CRAMBELL, TAYLOR R    | OWOSSO MI       |
| DIEBERT, DANIEL       | RIVERVIEW MI    |
| DIEDERICHS, PHILIP J  | NEWPORT MI      |
| DONA, REMI J          | WASHINGTON MI   |
| DOYEN, JASON M        | SOUTH LYON MI   |
| DUTTON, BRANDEN T     | FOWLerville MI  |
| EDWARDS, ROBERT S     | RIVER ROUGE MI  |
| FERNANDEZ, ROSS W     | BRECKENRIDGE MI |
| FISCHER, JOSEPH F     | BAD AXE MI      |
| FOSTER, PAUL D        | LANSING MI      |
| FOWLER, JOSHUA D      | YPSILANTI MI    |
| FREE, ROBERT T        | YPSILANTI MI    |
| FRICKO, JOHN B        | ATTICA MI       |
| FRY, BRANDON J        | JACKSON MI      |
| GAITHER, DENNIS L     | GRAND HAVEN MI  |
| GIARMO, FRANK J II    | MONROE MI       |
| GONZALEZ, JACOB L     | SPRINGPORT MI   |
| GOOD, WILLIAM A       | RICHMOND MI     |
| GOSHORN, DONALD L     | BROWN CITY MI   |
| GROENHEIDE, MICHAEL J | ZEELAND MI      |
| HAGGERTY, DANIEL M    | WARREN MI       |

LICENSE REVIEW

E-13-62C

November 7, 2013

The Department of Licensing and Regulatory Affairs, Electrical Division, confirms that the applicants listed below received a passing score of the examination taken in Lansing, August 29, 2013

Journeyman Electrician

HAGOOD, BRIAN K  
HELTON, JOSEPH W II  
HEMINGER, TODD  
HENSLEY, JAMES JR  
HERLINE, JUSTIN  
HOFFMAN, MATTHEW K  
JACKSON, GRADON L  
JACKON, PAUL  
JONES, MATTHEW B  
KAMINSKI, MARK D  
KATO, SELWAN R  
KAUFFMAN, REED A  
KEENE, DENNIS B  
KNISS, JACOB P  
KOEPPGEN, ERIK D  
KORRECK, BENJAMIN J  
LALONDE, KENNETH A  
LAMBRIGHT, NICHOLAS JAMES  
LAMPEN, MICHAEL J  
LEONE, DAVID M  
MAHONEY, MICHAEL J  
MARTIN, DANIEL C  
MASSEY, GLEN H  
MAYS, KENNETH R  
MILING, JOSHUA L  
MINOR, STEVEN B  
MOORE, JEFFREY S  
MORSE, DONALD K  
MOUL, KURT A  
MOWRER, DAVID A  
O'CONNOR, CHRISTOPHER A  
O'CONNOR, ROSS E  
OOSTRA, DANNY L  
PARKER, FLOYD Z  
PARKS, BENJAMIN L  
PLATEK, ALAN G

HOLLAND MI  
GRANDVILLE MI  
ROCKFORD MI  
KENTWOOD MI  
MIDLAND MI  
FRUITPORT MI  
LINCOLN PARK MI  
ALLENTOWN, MI  
CLARKSTON MI  
ROCHESTER MI  
WARREN MI  
KENTWOOD MI  
MACOMB MI  
ORTONVILLE MI  
MUNITH MI  
OTSEGO MI  
HOPKINS MI  
HASTINGS MI  
HAMILTON MI  
ROYAL OAK MI  
LAINGSBURG MI  
SHELBY TWP MI  
BELLEVILLE MI  
VASSAR MI  
DORR MI  
WATERVLIET MI  
MUSKEGON MI  
BAY CITY MI  
SPARTA MI  
TAYLOR MI  
MANTON MI  
HOLLAND MI  
BYRON CENTER MI  
ROCHESTER HILLS MI  
BATTLE CREEK MI  
REDFORD MI

LICENSE REVIEW

E-13-62C

November 7, 2013

The Department of Licensing and Regulatory Affairs, Electrical Division, confirms that the applicants listed below received a passing score of the examination taken in Lansing, August 29, 2013

Journeyman Electrician

PRICE, JOHN J  
PUTMAN, SHAWN R  
QUINTAL, EDWARD J  
RANDALL, SHAWN P  
REDMAN, DEREK J  
REYNOLDS, JAMES H  
SAGEMAN, JOHN R  
SANTRUCEK, BRIAN T  
SCHROEDER, WILLIAM S  
SEARS, JARED S  
SEXTON, TIMOTHY M  
SMOTHERMAN, TYLER W  
STERNER, DOUGLAS A  
STEVENS, JEREMY J  
SUN, VINCENT LAWRENCE  
SYTEK, RYAN M  
TENNANT, JOSHUA M  
THIRY, TIMOTHY J  
THORNTON, MATTHEW J  
TILMANN, JOSPEH G  
VANAGTMAEL, SCOTT A  
VANORDER, ROGER D  
WARNERS, CURTIS J  
WASHCHUK, KEVIN M  
WEDEL, ROBERT E  
WILLIAMS, MICHAEL J  
YARBROUGH, THOMAS M  
ZAJAS, JEROME V

NORTH LIBERTY IN  
CENTRAL LAKE MI  
STERLING HEIGHTS MI  
CLARE MI  
GLADWIN MI  
HARPER WOODS MI  
MT PLEASANT MI  
OWOSSO MI  
GREENWOOD TWP MI  
GIBSONBURG OH  
PETOSKEY MI  
BOWLING GREEN OH  
SHELBY TOWNSHIP MI  
MARINE CITY MI  
WARREN MI  
MANISTEE MI  
JACKSON MI  
MILAN MI  
ROCKFORD MI  
MT PLEASANT MI  
HART MI  
JACKSON MI  
CALEDONIA MI  
STERLING HEIGHTS MI  
BATTLE CREEK MI  
CHARLOTTE MI  
FOWLerville MI  
SOUTHGATE MI



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

November 7, 2013

E-13-63

TO: Members of the State Electrical Administrative Board

FROM: Dan O'Donnell, Chief, Electrical Division

SUBJECT: Journeyman electrician examination application

**APPLICANT REPRESENTATIVE:**

John M. Carnes

**PROJECT:**

N/A

**AUTHORITY:**

The Michigan Electrical Administrative Act, 1956 PA 217 of the Michigan Compiled Laws.

The Electrical Administrative Board General Rules

**REQUEST:**

Request to petition the Electrical Administrative Board to sit for the journeyman electrician examination.

**APPLICABLE RULE:**

1956 PA 217, MCL 338.883a Sec. 3a. (c), MCL 338.883d Sec. 3d. (1), (a), (b), (c), (d), Administrative Board General Rules R338.1005a Rule 5a. (1), (2), (3), R338.1006a Rule 6a (1), (3), (4).

**FINDINGS:**

Mr. Carnes submitted an application to sit for the journeyman electrician examination. The documentation submitted by Mr. Carnes indicates that he attained 6152 hours of

*Providing for Michigan's Safety in the Built Environment*

electrical experience under the supervision of licensed electrical contractors and master electricians in the State of Michigan. Additionally Mr. Carnes has documentation indicating that he attained 1681 hours of electrical experience while employed by Davis Electrical Constructors (aka; IES Industrial Inc.), a licensed electrical contractor in the State of South Carolina under the supervision of master electrician Roger S. Passmore. Our records indicate that Mr. Passmore has been a licensed master electrician in the State of Michigan since 1983.

**RECOMMENDATION:**

In accordance with the acts and rules listed above staff concludes that Mr. Carnes meets the requirements to sit for the State of Michigan journeyman electrician examination and recommends that the board approve his application.

**Application for Journeyman Electrician Examination**  
 Michigan Department of Licensing and Regulatory Affairs  
 Bureau of Construction Codes / Electrical Division  
 P.O. Box 30255, Lansing, MI 48909  
 517-241-9320  
 www.michigan.gov/bcc

Agency Use Only

6337514

**Examination Fee: \$100.00 (nonrefundable)**

|   |  |
|---|--|
| Authority: 1958 PA 217<br>Completion: Mandatory<br>Penalty: Examination will not be given | LARA is an equal opportunity employer/program. Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. |
|---|--|

**Instructions:** To be eligible to make application for and take this examination an applicant shall meet the following criteria:

- Complete and sign application. Type or print in ink.
- Application and fee must be received 20 business days prior to the examination date.
- Applicant must not be less than 20 years of age.
- Provide **original notarized** documentation from present or former employers to the effect that the applicant has not less than 8,000 hours of practical experience obtained over a period of not less than 4 years related to electrical construction or electrical maintenance of buildings under direct supervision of a person licensed pursuant to the act. Documentation must include the beginning (month, day, year) to ending (month, day, year) dates of employment. The 8,000 hours of practical work experience over 4 years must be attained prior to the deadline date for submitting documentation. **Notarized**, original documentation must be on employers' letterhead stationery and provide dates of employment and hours worked under licensed supervision and signed by the qualified master electrician.
- Enclose a check made payable to the **State of Michigan**.
- Mail completed application, required documents, and payment to the address listed above.

**Information**

Applicants are permitted one examination for the \$100.00 fee. Upon achieving a minimum passing score of 75% or higher, the applicant will be billed \$40.00 for the journeyman electrician license prior to issuance of the license. Failure of examination 2 times within 2 years requires 1 year waiting period from the date of the second failure and proof of successful completion of a course on code, electrical fundamentals or theory to be eligible for reexamination. Examination fee is forfeited upon failure to appear for scheduled examination unless written explanation is received within 10 business days of the examination.

**Examination Eligibility of Applicants From Other States or Countries**

A person who is licensed as a journeyman electrician in another state or country may qualify for examination upon determination by the board that the license was obtained by the person through substantially the same or equal requirements as those of the state of Michigan in accordance with the provisions of section 3a of the act.

**Applicant Information**

|  |                     |                             |   |
|--|---------------------|-----------------------------|---|
| NAME (Last Name, First Name, Middle Initial)<br><i>Carnes, John H.</i> |                     | DATE OF BIRTH<br>[REDACTED] | LAST 4 DIGITS OF SOCIAL SECURITY NUMBER*<br>XXX-XX-[REDACTED] |
| ADDRESS<br>[REDACTED]  | CITY<br>[REDACTED]  | TOWNSHIP<br>[REDACTED]      |   |
| COUNTY<br>[REDACTED]   | STATE<br>[REDACTED] | ZIP CODE<br>[REDACTED]      | TELEPHONE NUMBER (Include Area Code)<br>[REDACTED]            |

Have you previously taken this examination?  Yes  No

If examination was not administered by the State Electrical Division provide the licensing entity:

City of \_\_\_\_\_ Township of \_\_\_\_\_

**Examination Site**

Examinations are given at the sites listed below. Refer to the enclosed "Schedule of Electrical Board Meetings and Licensing Examinations" for examination dates. Please check below the site you wish to be examined at and indicate a preference of examination month. If approved for examination, an admission card will be mailed to you approximately 10 days prior to the examination date. If the examination you have selected is full, you will be scheduled for the next available examination at your preferred site.

|  |  |                                    |
|--|--|------------------------------------|
| Preferred Site<br><input checked="" type="checkbox"/> Lansing<br><input type="checkbox"/> Escanaba | Preferred Month<br><i>September August</i> | JUL 03 2013<br>ELECTRICAL DIVISION |
|--|--|------------------------------------|

If you have a disability and require an accommodation to take the examination, please submit written documentation from a professional (education professional, doctor, psychologist, psychiatrist) to certify that your disabling condition requires the requested test accommodation. Forms are available from this office.

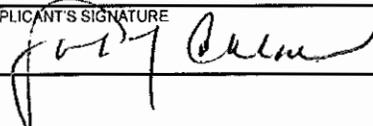
\*This information is confidential. Disclosure of confidential information is protected by the Federal Privacy Act.

**Experience Record (attach additional sheets if necessary)**

|  |                            |  |                          |
|--|----------------------------|--|--------------------------|
| NAME OF CURRENT EMPLOYER<br><b>IBEW Local # 275</b>      |                            | DATES OF EMPLOYMENT (MM/DD/YY)<br>BEGINNING: <b>12/1/99</b> ENDING: <b>Active/Member</b> |                          |
| ADDRESS<br><b>140 W. 64th Avenue</b>                     | CITY<br><b>Coppsville</b>  | STATE<br><b>VT</b>   | ZIP CODE<br><b>49404</b> |
| TYPE OF WORK PERFORMED<br><b>Industrial Electrical</b>   |                            |  |                          |
| NAME OF EMPLOYER<br><b>Quico Electrical Inc</b>          |                            | DATES OF EMPLOYMENT (MM/DD/YY)<br>BEGINNING: <b>05/15/09</b> ENDING: <b>03/03/10</b>     |                          |
| ADDRESS<br><b>4224 Metrie Drive</b>                      | CITY<br><b>Winter Park</b> | STATE<br><b>FL</b>   | ZIP CODE<br><b>32782</b> |
| TYPE OF WORK PERFORMED<br><b>Industrial Electricians</b> |                            |  |                          |

**Certification and Signature of Applicant**

I certify the information provided is true and accurate to the best of my ability and I have the experience required for this examination. I further understand fraud or deceipt in obtaining a license is grounds for administrative action in accordance with the act.

|  |                         |
|--|-------------------------|
| APPLICANT'S SIGNATURE<br> | DATE<br><b>06/27/13</b> |
|--|-------------------------|

**Agency Use Only**

Approved for Exam  Yes  No

| Date of Exam | Score | Absent | Date of Exam | Score | Absent |
|--------------|-------|--------|--------------|-------|--------|
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |

Validation Area

Date Approved by EAB \_\_\_\_\_

RECEIVED

JUL 03 2013

ELECTRICAL  
DIVISION

|  |  |                          |   |  |   |   |  |
|--|--|--------------------------|---|--|---|---|--|
| PERSONAL DATA  | 1. LAST NAME-FIRST NAME-MIDDLE NAME<br><b>CARNES JOHN MARK</b>   |                          | 2. SERVICE NUMBER<br><b>NA</b>  |  | 3. SOCIAL SECURITY NUMBER<br><b>77-1011020</b>  |   |  |
|  | 4. DEPARTMENT COMPONENT AND BRANCH OR CLASS<br><b>ARMY-RA-01</b>   |                          | 5. GRADE, RATE OR RANK<br><b>SP4</b>  | 6. PAY GRADE<br><b>E-4</b>   | 6. DATE OF RANK<br>DAY MONTH YEAR<br><b>JUN</b>   |   |  |
|  | 7. U. S. CITIZEN<br><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO  |                          | 8. PLACE OF BIRTH (City and State or Country)<br><b>ALEXANDRIA VA</b>   |  | 9. DATE OF BIRTH<br>DAY MONTH YEAR<br><b>JUN</b>  |   |  |
| SELECTIVE SERVICE DATA   | 10a. SELECTIVE SERVICE NUMBER<br><b>NA</b>   |                          | b. SELECTIVE SERVICE LOCAL BOARD NUMBER, CITY COUNTY, STATE AND ZIP CODE<br><b>LB # NA</b>  |  |   | c. DATE INDUCTED<br>DAY MONTH YEAR<br><b>NA</b> |  |
|  | 11a. TYPE OF TRANSFER OR DISCHARGE<br><b>TRF TO USAR</b>   |                          | b. STATION OR INSTALLATION AT WHICH EFFECTED<br><b>FORT DIX NEW JERSEY</b>  |  |   |   |  |
| TRANSFER OR DISCHARGE DATA   | 2. REASON AND AUTHORITY<br><b>AR 635-200 PARA 2-2 EXP OF TERM OF SVC SPN 201</b>   |                          | 4. EFFECTIVE DATE<br><b>10 SEP 1973</b>   | 5. TYPE OF CERTIFICATE ISSUED<br><b>NONE</b>                                 |   |   |  |
|  | 12. LAST DUTY ASSIGNMENT AND MAJOR COMMAND<br><b>693RD ENGR CO HQ USAREUR/7A</b>   |                          | 13a. CHARACTER OF SERVICE<br><b>HONORABLE</b>   |  | 15. REENLISTMENT CODE<br><b>RE-1B</b>   |   |  |
|  | 14. DISTRICT AREA COMMAND OR CORPS TO WHICH RESERVIST TRANSFERRED<br><b>USAR CON GP (ANL TNG) RCPAC ST LOUIS MO</b>  |                          | 16. TERMINAL DATE OF RESERVE/UMTS OBLIGATION<br>DAY MONTH YEAR<br><b>22 W2 1977</b>   |  |   |   |  |
| SERVICE DATA   | 17. CURRENT ACTIVE SERVICE OTHER THAN BY INDUCTION<br>a. SOURCE OF ENTRY:<br><input type="checkbox"/> UNLISTED (First Enlistment) <input type="checkbox"/> ENLISTED (Under Service) <input type="checkbox"/> REENLISTED <input type="checkbox"/> OTHER |                          | b. TERM OF SERVICE (Years)<br><b>2</b>  |  | c. DATE OF ENTRY<br>DAY MONTH YEAR<br><b>23 AUG 1971</b>  |   |  |
|  | 18. PRIOR REGULAR ENLISTMENTS<br><b>NONE</b>   |                          | 19. GRADE, RATE OR RANK AT TIME OF ENTRY INTO CURRENT ACTIVE SVC<br><b>PVI</b>  |  | 20. PLACE OF ENTRY INTO CURRENT ACTIVE SERVICE (City and State)<br><b>DETROIT MICH</b>                                |   |  |
|  | 21. HOME OF RECORD AT TIME OF ENTRY INTO ACTIVE SERVICE (Street, City, State, ZIP Code)<br><b>[REDACTED]</b>   |                          | 22. STATEMENT OF SERVICE  |  |   |   |  |
|  | 23a. SPECIALTY NUMBER & TITLE<br><b>76Q20 26 JUN 72<br/>SEE 30</b>   |                          | b. RELATED CIVILIAN OCCUPATION AND D.O.T NUMBER<br><b>920.887<br/>PARTSMAN</b>  |  | 22. STATEMENT OF SERVICE  |   |  |
|  | 24. DECORATIONS, MEDALS, BADGES, COMMENDATIONS, CITATIONS AND CAMPAIGN RIBBONS AWARDED OR AUTHORIZED<br><b>NATIONAL DEFENSE SERVICE MEDAL<br/>GOOD CONDUCT MEDAL</b>   |                          | 22. STATEMENT OF SERVICE  |  |   |   |  |
| 25. EDUCATION AND TRAINING COMPLETED<br><b>SUPPLY CLERK 76A10 6 WKS 72</b> |  | 22. STATEMENT OF SERVICE |   |  |   |   |  |
| VA AND EMP. SERVICE DATA   | 26a. NON-PAY PERIODS TIME LOST (Procedure 100 11277)<br><b>NONE</b>  |                          | b. DAYS ACCRUED (11277)<br><b>NONE</b>  |  | 27. RESERVE STATUS (NSLI or USGL)<br><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO<br><b>NA</b> |   |  |
|  | 28. VA CLAIM NUMBER<br><b>NA</b>   |                          | 29. SERVICEMEN'S GROUP LIFE INSURANCE COVERAGE<br><input checked="" type="checkbox"/> \$15,000 <input type="checkbox"/> \$10,000 <input type="checkbox"/> \$5,000 <input type="checkbox"/> NONE |  |   |   |  |
| REMARKS  | 30. REMARKS<br><b>CIV ED:11 YRS<br/>BLOOD GP:O POS<br/>ITEM 22C USAREUR<br/>RETAINED IN SERVICE 18 DYS FOR CONV OF GOVT<br/>ITEM 23A SP PUR EQ RPR PTS SH ES NONE</b>  |                          |   |  |   |   |  |
|  | 31. PERMANENT ADDRESS FOR MAILING PURPOSES AFTER TRANSFER OR DISCHARGE<br><b>[REDACTED]</b>  |                          |   | 32. SIGNATURE OF PERSON BEING TRANSFERRED OR DISCHARGED<br><b>[REDACTED]</b> |   |   |  |
| AUTHENTICATION   | 33. TYPED NAME, GRADE AND TITLE OF AUTHORIZING OFFICER<br><b>G E CARTER CW3 USA<br/>ASST CHIEF ENL BRANCH</b>  |                          |   | 34. SIGNATURE OF OFFICER AUTHORIZED TO SIGN<br><b>[Signature]</b>            |   |   |  |

ATTESTED: A TRUE COPY  
*Laurel J Breuker*  
 LAUREL J. BREUKER  
 NEWAYGO COUNTY CLERK

# DAVIS ELECTRICAL CONSTRUCTORS, INC.

ELECTRICAL & INSTRUMENTATION CONTRACTORS  
P. O. BOX 1907, GREENVILLE, S. C. 29602  
PHONE (864) 250-2500

November 15, 2007

To Whom It May Concern:

Davis Electrical Constructors, Inc., employed as an Electrical Helper, **Mr. John M. Carnes**, Social Security Number [REDACTED]. He was employed by Davis from June 18, 1984 until May 23, 1997 and has completed 3,726.75 hours under the supervision of Master Electrician Roger S. Passmore. Mr. Passmore is a licensed Master Electrician in the states of Arkansas (M-3608), Colorado (2334), Maryland (2292), Massachusetts (MR413), Michigan (6204253), Minnesota (AM05859), New Hampshire (8122), Utah (276114-5501) and Wyoming (M-143). Mr. Passmore is also a licensed Master Electrician in the cities of Iowa City, Iowa (ELL91-0245M), Meridian, Mississippi (8888-E-16), Greenville, South Carolina (90742), Dallas, Texas (415992086) and Wichita Falls, Texas (1523). He also has a Municipal Association of South Carolina Master Electrician's license (30 ME-0587).

If additional information is needed, please call.

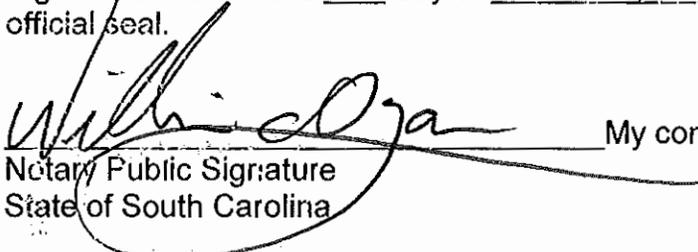
Sincerely,

DAVIS ELECTRICAL CONSTRUCTORS, INC.

Linda Winslett  
Human Resources Assistant

Notary Public

Signed before me this 15th day of November, 2007 witnesses my hand and official seal.

  
Notary Public Signature  
State of South Carolina

My commission expires April 15, 2009  
Date

RECEIVED

JUL 08 2013

ELECTRICAL  
DIVISION



## INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS WEST MICHIGAN LOCAL No. 275

SEAN EGAN  
BUSINESS MANAGER/FINANCIAL SECRETARY

June 6, 2013

Bureau of Construction Code  
Electrical Division  
P.O. Box 30255  
Lansing, MI 48909

Dear Sirs,

This letter is to inform you that John Carnes, Social Security number [REDACTED] is applying to take his State Electrical Exam.

Mr. Carnes has accumulated over 4,300 hours from December 1, 1999 through June 14, 2002 under the direct supervision of Journeyman Wireman and Master Electricians. His work experience includes Commercial, Residential and Industrial wiring.

Please accept this letter as proof of his experience in the electrical construction industry through West Michigan Local Union #275, IBEW.

Sincerely,

Sean Egan  
Business Manager  
West Michigan Local 275, IBEW

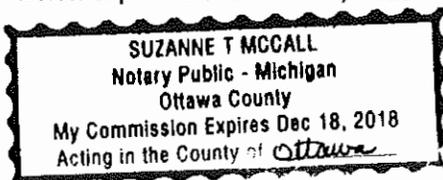
SE/sm OPEIU #459 afl-cio

Sworn to before me this 6th day of June 2013

Notary Public Suzanne T. McCall  
Suzanne T. McCall

Acting in the County of Ottawa

My commission expires December 18, 2018



RECEIVED

JUL 03 2013

ELECTRICAL  
DIVISION

*Johnson Electric*  
AN INTEC COMPANY

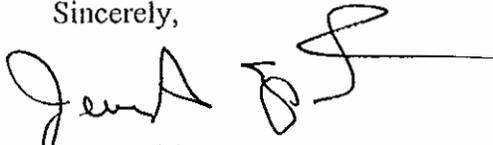
March 21, 2000

John Carnes  
[REDACTED]

Dear John,

Our records indicate that during your former employment with Johnson Electric Company beginning 03/23/98 through 11/09/98, you worked a total of 1383.75 hours under the supervision of a Master Electrician.

Sincerely,

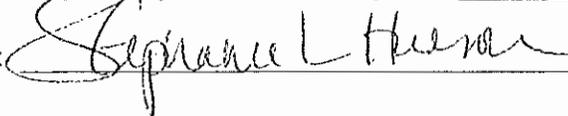
  
Jerry Spittler  
Master Electrician #62-04309

JS/pt

cc: personnel file

Subscribed and sworn to before me on 3.21.00, Kent

County, Michigan. My commission expires: 10.31.00.

Signature: 

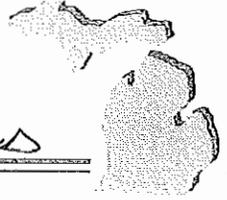
RECEIVED

AUG 06 2013

ELECTRICAL  
DIVISION

# Allstate Electric, Inc.

6104606 DLS



1961 Pine Ridge Drive • Jenison, Michigan 49428  
Phone: (616) 669-2520 Fax: (616) 669-9030

January 18, 2000

Re: Mr. John Carnes



Electrical Hours

To whom it may concern:

Mr. Carnes was employed with Allstate Electric, Inc. from September 8, 1999 through November 12, 1999. During that time Mr. Carnes worked 469 hours. His experience has been in all areas of electrical wiring and installation.

Notary:

Subscribed and sworn to before me:

Day: 18th Month: Jan. Year: 2000

Signature of Notary: Robert A. Kahn

State of Michigan, County of Ottawa

Commission Expiration: December 7, 2000

Contractor:

I have read this form and certify the statement is correct to my best knowledge and belief.

Name: Allstate Electric, Inc. MASTER LICENSE

Owner/Partner: David S. Longstreet

Signature: [Signature] Date: 1/18/00

# 6206341 DLS

RECEIVED

AUG 06 2013

ELECTRICAL  
DIVISION

# DAVIS ELECTRICAL CONSTRUCTORS, INC.

ELECTRICAL & INSTRUMENTATION CONTRACTORS  
P. O. Box 1907, GREENVILLE, S. C. 29602  
PHONE (864) 250-2500

March 27, 2000

To Whom It May Concern:

This is to confirm that John Mark Carnes, S.S. [REDACTED], worked for this company on the following dates:

From 06-18-84 to 06-24-85 as an electrician's helper on our Carolina Power & Light Project at New Hill, North Carolina.

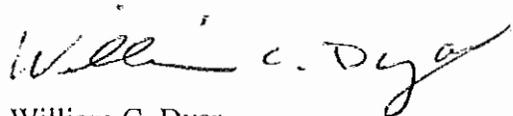
From 08-19-96 to 09-23-96 as an electrician's helper on our Roche Project at Florence, SC.

From 10-14-96 to 05-23-97 as an electrician's helper on our Roche Project at Florence, SC.

1996= 661,5 HOURS      1997=1,019.5 HOURS

Mr. Carnes' experience with this company was in industrial power lighting and control work.

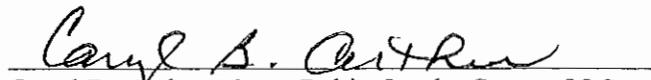
DAVIS ELECTRICAL CONSTRUCTORS, INC.



William C. Dyar  
Director of Human Resources

WCD:cba

Sworn and subscribed before me this 27<sup>th</sup> day of March 20 03  
in Greenville, Greenville County, South Carolina.



Caryl B. Arthur-Notar Public for the State of SC

My commission expires October 18, 20 03.

RECEIVED

AUG 06 2013

ELECTRICAL  
DIVISION



South Carolina  
Department of Labor, Licensing and Regulation  
South Carolina Contractors' Licensing Board



Nikki R. Haley  
Governor

Holly G. Pisarik  
Director

September 4, 2013

110 Centerview Drive  
Post Office Box 11329  
Columbia, SC 29211-1329  
(803) 896-4686  
FAX: (803) 896-4814  
www.llronline.com

**CERTIFICATION OF LICENSURE**

Licensee: ..... **IES INDUSTRIAL INC**  
**1800 W LOOP S #500**  
**HOUSTON TX 77027**

**FROM 01/1992 TO 02/2008 PREVIOUSLY LICENSED AS:**  
**DAVIS ELECTRICAL CONSTRUCTORS INC**  
**301 TOWNES STREET, PO BOX 1907**  
**GREENVILLE SC 29601**

License#: ..... **CLM.1959**  
Initial License Date: ..... **circa 1983**  
Expiration Date: ..... **10/31/2011**  
Reciprocity Qualifier: ..... **ROGER S PASSMORE**  
License Classification(s): ..... **ELECTRICAL**  
Examination Date(s): ..... **N/A**

RECEIVED

SEP 04 2013

ELECTRICAL  
DIVISION

**LICENSED BY:**

- Examination (score of 70% or higher).
- Reciprocity/Waiver Agreement with the State of GEORGIA.
- S.C. Grandfather provision; no technical exam taken.
- Work experience; a technical exam not required for above classification(s).

**LICENSEE STATUS:**

- The licensee is currently **ACTIVE** in good standing with the S. C. Contractors' Licensing Board.
- The license is **EXPIRED**. The **qualifier** was associated with this license from circa 1994 to 04/23/2010.

**DISCIPLINARY ACTION:**

- No  Yes - Explanation:

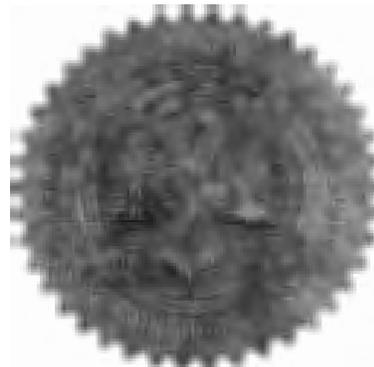
**OTHER:**

- Notes:

If I can be of further assistance, please contact me at rhonda.jackson@llr.sc.gov or (803) 896-4627.

Sincerely,

Rhonda Jackson  
Administrative Assistant



## **121-2-.01 Statewide Electrical Contractor License. Amended.**

(1) To obtain a statewide class I or class II electrical contractor license, a person must submit a completed application, meet the experience requirement as described in Paragraph (2) of this rule, obtain a score of seventy (70) on the appropriate examination, and pay the fees required by the Board. An applicant must submit three references on the required form from persons who can attest to the applicant's good character and electrical experience to the satisfaction of the Division. At least one reference must be from a licensed electrical contractor who shall include his or her registration number. Statewide class I electrical contractor licenses are restricted to electrical contracting involving single-phase electrical installations which do not exceed 200 amperes at the service drop or the service lateral. Class II electrical contractor licenses are unrestricted.

(2) Applicants for statewide electrical contractor license must be a minimum of 21 years old and document a minimum of 4 years experience in the electrical field as would be covered by the Georgia Electrical Code or the National Electrical Code. Such experience must be Primary Experience. No more than one (1) year of experience may be credited based on Secondary Experience or Education. Secondary Experience time will be credited at a rate of fifty percent (50%). (For example, three (3) years of Primary Experience and two (2) years of Secondary Experience would meet the 4 years experience requirements). Applicants for Class II Licenses must document experience with installations in excess of single phase, 200 amperes systems.

(3) Primary Experience shall mean working experience gained through the direct installation of electrical systems of a type covered by the National Electrical Code and directly related activity. Primary Experience involves installation of electrical systems. The public welfare and overall life safety responsibility require that an electrical contractor have actual in-the-field experience and be competent in all phases of electrical work. Nothing in this rule shall be construed to permit the unlicensed practice of electrical contracting. Applicants for Class II licenses must document prior experience in all of the following, and applicants for Class I license must document primary experience in at least 6 of the following:

- (a) Installation of raceway systems, including pull boxes, junction boxes, conduit bodies and the connections in the system and to cabinets, panelboards, switchboards, and boxes, which meet all Code use and installation requirements.
- (b) Installation of conductors, including flexible cords, cables, splices, taps, terminations, bonding jumpers, overcurrent protective devices, metering devices, etc., in cabinets, panelboards, switchboards, boxes and conduit, which meet all Codes use and installation requirements, such as to sizing, ampacity, voltage, etc.
- (c) Installation of service entrances, metering devices, cabinets, switchboards, service risers and fasteners, overcurrent protective devices, disconnecting means, ground electrodes, main bonding jumpers, and ground fault protectors which all meet Code installation requirements, such as to sizing, rating, clearances, and weatherproofing.
- (d) Installation of motors and generators with feeders, branch circuits, overcurrent protective devices, disconnect means, and controllers all of which meet Code installation requirements, such as sizing, rating, usage, and location.
- (e) Installation of switches, disconnects, controls, etc., which supply lighting fixtures, appliances, electrical circuits, controls for heating and air conditioning equipment, other

utilization and general use equipment, according to use and Code installation requirements.

(f) Installation of materials and equipment required for use in special occupancies according to use and Code installation requirements, as defined by Chapter 5 of the National Electrical Code.

(g) Bonding of interior metal piping systems, installation of properly sized equipment grounding conductors, grounding of exposed noncurrent carrying metal parts of electrical equipment, and protection of grounding conductors from physical damage.

(h) Determination of general lighting loads, minimum branch circuits, minimum ampacity of conductors in feeder and branch circuits, maximum allowable conductor fill for raceways, net loads, using specified or optional methods, rates or demand factors, and derating factors given in the Code.

(4) Secondary Experience shall mean work or training experience related to electrical contracting work involving electrical systems covered by the National Electrical Code. Examples of Secondary Experience may include:

(a) Instruction received on electrical installation, theory, and code by a full-time secondary or post secondary instructor in an established class at a recognized learning center.

(b) Inspection of electrical wiring by a full-time municipal or county inspector.

(c) Electrical engineering design by a registered professional engineer.

(d) Work for a licensed electrical contractor with sole responsibility in at least three (3) of the following areas: estimating; project management; scheduling and assigning work; preparing progress charts (CPM's or other flow charts); sales and cash flow responsibilities such as budgetary, preparation of pay request, invoices, etc.

(e) Installation of electrically lighted signs.

(5) Education may be applied toward the experience requirements as follows:

(a) Completion of a two (2) academic year minimum diploma.

(b) Completion of a two (2) academic year minimum certificate program of a vocational-technical school may be credit as no more than one (1) year of experience.

(6) The Board, in its discretion, may allow for the oral administration of the examination. Requests for oral administration of the examination must be received in writing and approved by the Division prior to the examination being scheduled. In conjunction with any request for oral administration of the examination, the applicant shall give full and complete explanation of any physical, emotional, or educational limitation. The decision of the Division concerning such a request is final.

Authority Ga. L. 1983, pp. 430-431; O.C.G.A. Secs. 43-14-5, 43-14-6. History. Original Rule entitled "Fees," was filed as Emergency Rule 121-2-1-0.2-.01 on July 28, 1980; effective July 22, 1980, the date of adoption, to remain in effect for a period for 120 days or until the effective date of a permanent Rule covering the same subject matter superseding this Emergency Rule, as specified by the Agency. Amended: Emergency Rule repealed and Emergency Rule 121-2-1-0.8-.01 entitled "Qualifications for Licensure," adopted. Filed September 29, 1980; effective September 25, 1980, the date of adoption, to remain in effect for a period of 120 days or until the effective date of a permanent Rule covering the same subject matter superseding this Emergency Rule, as specified by the Agency. Amended: Emergency Rule repealed and permanent Rule entitled "Qualifications for Licensure" adopted. Filed November 7, 1980; effective November 27, 1980. Amended: Rule repealed by Emergency Rule 121-2-0.14-.01, entitled "Statewide Electrical Contractor License." Filed April 28, 1981; effective April 22, 1981, the date of adoption, to remain in effect for a period for 120 days or until the effective date of a permanent Rule covering the same subject matter superseding this Emergency Rule, as specified by the Agency. Amended: Emergency Rule repealed and permanent Rule 121-2-.01 of same title, adopted. Filed July 30, 1981; effective August 19,

1981. Amended: Rule repealed by Emergency Rule 121-2-0.21-.01. Filed March 22, 1983; effective March 16, 1983, the date of adoption, to remain in effect for a period of 120 days or until the effective date of a permanent Rule covering the same subject matter superseding this Emergency Rule, as specified by the Agency. (Said Emergency Rule expired July 13, 1983.) Amended: Rule repealed and a new Rule of the same title adopted. Filed July 13, 1983; effective August 2, 1983. Amended: Filed December 6, 1988; effective December 26, 1988. Repealed: New Rule of same title adopted. F. Oct. 26, 1989; eff. Nov. 15, 1989. Amended: F. Jan. 31, 1991; eff. Feb. 20, 1991. Amended: F. Jun. 18, 1993; eff. Jul. 8, 1993.



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

Date Mailed from BCC: 10-29-2013

**John M Carnes**



**Document E-13-63  
Exam Applicant Review**

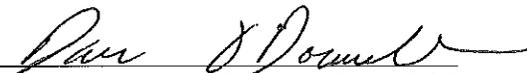
**NOTICE OF MICHIGAN ADMINISTRATIVE ELECTRICAL BOARD MEETING**

You are hereby notified that in accordance with the Administrative Procedures Act, 1969 PA 306, MCL 24.201 *et seq.*, and the Electrical Administrative Act being 1956 PA 217 MCL 338.881 *et seq.*, you are scheduled to appear before the Michigan Electrical Administrative Board on:

Date: November 7, 2013  
Time: 9:30 a.m.  
Location: Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes  
2501 Woodlake Circle, Conference Room 3  
Okemos, MI 48864

This notice is to provide you the opportunity to provide testimony to the board regarding your experience and eligibility to sit for the journeyman electrician exam. If you wish to offer any document(s) into evidence, you must file the documentation with the Electrical Division prior to the meeting or bring fifteen (15) copies of the information you wish to enter for the board's consideration. In the event you are unable to attend the meeting or you choose not to appear before the board, please contact the Electrical Division in advance of the meeting. In the event that you fail to appear at the meeting as scheduled, a decision may be entered in your absence.

Accompanying this notice is a report outlining our findings and recommendation based upon the Electrical Administrative Act being 1956 PA 217 MCL and the documentation you have provided at the time of mailing. Any questions regarding this matter may be directed to the Electrical Division at (517) 241-9320.

  
Dan O'Donnell, Chief, Electrical Division

10/29/2013  
Date

*Providing for Michigan's Safety in the Built Environment*

Exam Applicant Review  
John M. Carnes  
Document No. E-13-63  
November 7, 2013  
Page 2 of 4

**PROOF OF SERVICE**

I hereby state, to the best of my knowledge, information, and belief, that a copy of the foregoing document was served on this date upon all parties and/or attorneys of record in this matter by email to those parties employed by the State of Michigan and by first class mail to the remaining parties at their respective addresses as disclosed below.

*Toni Nelson*

\_\_\_\_\_  
Toni Nelson, Secretary  
Electrical Division  
Bureau of Construction Codes

*10/29/2013*

\_\_\_\_\_  
Date

John M. Carnes



BCC Administration



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

November 7, 2013

E-13-64

TO: Members of the State Electrical Administrative Board

FROM: Dan O'Donnell, Chief, Electrical Division

SUBJECT: Journeyman electrician examination application

**APPLICANT REPRESENTATIVE:**

George H. West

**PROJECT:**

N/A

**AUTHORITY:**

The Michigan Electrical Administrative Act, 1956 PA 217 of the Michigan Compiled Laws.

The Electrical Administrative Board General Rules

**REQUEST:**

Request to petition the Electrical Administrative Board to sit for the journeyman electrician examination.

**APPLICABLE RULE:**

1956 PA 217, MCL 338.883a Sec. 3a. (c), MCL 338.883d Sec. 3d. (1), (a), (b), (c), (d), Administrative Board General Rules R338.1005a Rule 5a. (1), (2), (3), R338.1006a Rule 6a (1), (3), (4).

**FINDINGS:**

Mr. West submitted an application to sit for the journeyman electrician examination. The documentation that Mr. West submitted indicates that since March 2006 he has 9473

*Providing for Michigan's Safety in the Built Environment*

hours of electrical experience while employed by King Electric Services INC. in Toledo Ohio under the supervision of master electrician Rodney Kusic, State of Michigan master electrician license number 6209995. Mr. West information also indicates that he completed an electrical apprenticeship recognized by the USDOLOA and the Ohio State Apprenticeship Council sponsored by ABC Chapter of Northern Ohio.

**RECOMMENDATION:**

In accordance with the acts and rules listed above staff concludes that Mr. West meets the requirements to sit for the State of Michigan journeyman electrician examination and recommends that the board approve his application.

**Application for Journeyman Electrician Examination**  
 Michigan Department of Licensing and Regulatory Affairs  
 Bureau of Construction Codes / Electrical Division  
 P.O. Box 30255, Lansing, MI 48909  
 517-241-9320  
 www.michigan.gov/bcc

Agency Use Only

6337602

**Examination Fee: \$100.00 (nonrefundable)**

|   |  |
|---|--|
| Authority: 1956 PA 217<br>Completion: Mandatory<br>Penalty: Examination will not be given | LARA is an equal opportunity employer/program. Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. |
|---|--|

**Instructions:** To be eligible to make application for and take this examination an applicant shall meet the following criteria:

- Complete and sign application. Type or print in ink.
- Application and fee must be received 20 business days prior to the examination date.
- Applicant must not be less than 20 years of age.
- Provide **original notarized** documentation from present or former employers to the effect that the applicant has not less than 8,000 hours of practical experience obtained over a period of not less than 4 years related to electrical construction or electrical maintenance of buildings under direct supervision of a person licensed pursuant to the act. Documentation must include the beginning (month, day, year) to ending (month, day, year) dates of employment. The 8,000 hours of practical work experience over 4 years must be attained prior to the deadline date for submitting documentation. **Notarized**, original documentation must be on employers' letterhead stationery and provide dates of employment and hours worked under licensed supervision and signed by the qualified master electrician.
- Enclose a check made payable to the **State of Michigan**.
- Mail completed application, required documents, and payment to the address listed above.

**Information**

Applicants are permitted one examination for the \$100.00 fee. Upon achieving a minimum passing score of 75% or higher, the applicant will be billed \$40.00 for the journeyman electrician license prior to issuance of the license. Failure of examination 2 times within 2 years requires 1 year waiting period from the date of the second failure and proof of successful completion of a course on code, electrical fundamentals or theory to be eligible for reexamination. Examination fee is forfeited upon failure to appear for scheduled examination unless written explanation is received within 10 business days of the examination.

**Examination Eligibility of Applicants From Other States or Countries**

A person who is licensed as a journeyman electrician in another state or country may qualify for examination upon determination by the board that the license was obtained by the person through substantially the same or equal requirements as those of the state of Michigan in accordance with the provisions of section 3a of the act.

**Applicant Information**

|  |                     |                             |   |
|--|---------------------|-----------------------------|---|
| NAME (Last Name, First Name, Middle Initial)<br><i>West George H</i> |                     | DATE OF BIRTH<br>[REDACTED] | LAST 4 DIGITS OF SOCIAL SECURITY NUMBER*<br>XXX-XX-[REDACTED] |
| ADDRESS<br>[REDACTED]  | CITY<br>[REDACTED]  | TOWNSHIP                    |   |
| COUNTY<br>[REDACTED]   | STATE<br>[REDACTED] | ZIP CODE<br>[REDACTED]      | TELEPHONE NUMBER (Include Area Code)<br>[REDACTED]            |

Have you previously taken this examination?  Yes  No

If examination was not administered by the State Electrical Division provide the licensing entity:  
 City of \_\_\_\_\_ Township of \_\_\_\_\_

**Examination Site**

Examinations are given at the sites listed below. Refer to the enclosed "Schedule of Electrical Board Meetings and Licensing Examinations" for examination dates. Please check below the site you wish to be examined at and indicate a preference of examination month. If approved for examination, an admission card will be mailed to you approximately 10 days prior to the examination date. If the examination you have selected is full, you will be scheduled for the next available examination at your preferred site.

|   |                        |
|---|------------------------|
| <u>Preferred Site</u>                       | <u>Preferred Month</u> |
| <input checked="" type="checkbox"/> Lansing | <i>ASAP</i>            |
| <input type="checkbox"/> Escanaba           | _____                  |

RBCBIVED

AUG 05 2013

If you have a disability and require an accommodation to take the examination, please submit written documentation from a professional (education professional, doctor, psychologist, psychiatrist) to certify that your disabling condition requires the requested test accommodation. Forms are available from this office.

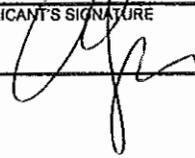
\*This information is confidential. Disclosure of confidential information is protected by the Federal Privacy Act.

**Experience Record (attach additional sheets if necessary)**

|  |                       |  |                          |
|--|-----------------------|--|--------------------------|
| NAME OF CURRENT EMPLOYER<br><i>King Electric</i> |                       | DATES OF EMPLOYMENT (MM/DD/YY)<br>BEGINNING: <i>Jan. 2004</i> ENDING: <i>Present</i> |                          |
| ADDRESS<br><i>1952 W. Sylvania Ave</i>           | CITY<br><i>Toledo</i> | STATE<br><i>Ohio</i>   | ZIP CODE<br><i>43603</i> |
| TYPE OF WORK PERFORMED<br><i>JOURNEMEN</i>       |                       |  |                          |
| NAME OF EMPLOYER                                 |                       | DATES OF EMPLOYMENT (MM/DD/YY)   |                          |
| ADDRESS  | CITY                  | STATE  | ZIP CODE                 |
| TYPE OF WORK PERFORMED                           |                       |  |                          |

**Certification and Signature of Applicant**

I certify the information provided is true and accurate to the best of my ability and I have the experience required for this examination. I further understand fraud or deceit in obtaining a license is grounds for administrative action in accordance with the act.

|  |                        |
|--|------------------------|
| APPLICANT'S SIGNATURE<br> | DATE<br><i>7/22/13</i> |
|--|------------------------|

**Agency Use Only**

Approved for Exam  Yes  No

| Date of Exam | Score | Absent | Date of Exam | Score | Absent |
|--------------|-------|--------|--------------|-------|--------|
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |

**Validation Area**

Tran Info: 163 10034295-1 08/01/13  
 CHRG: 6630 Amt: \$100.00  
 TO: KING ELECTRICAL SERVICES INC

Date Approved by EAB \_\_\_\_\_

RECEIVED

AUG 05 2013

ELECTRICAL  
DIVISION



# KING ELECTRICAL SERVICES

1952 W. SYLVANIA AVE.  
TOLEDO, OHIO 43613  
(419) 472-6911  
(419) 472-0866 FAX

INDUSTRIAL  
COMMERCIAL  
RESIDENTIAL

July 26, 2013

Michigan Department of Licensing  
Bureau of Construction Codes/Electrical Division  
P.O. Box 30255  
Lansing, MI 48909

Re: George West

To Whom It May Concern

This letter is in reference to the above employee, George West. He has been employed by King Electric from March 22, 2006 to present. He has a total of 9473 hours, not including overtime. He has been working under the supervision of myself, Rodney Kusic. The first year of his apprenticeship he primarily performed basic residential electrical work, as well as some commercial. The second year he performed residential and commercial. His third and fourth year he performed residential, including panel changes, commercial and some industrial work.

Sincerely,

Rodney Kusic  
Master Electrician

STATE OF Ohio )  
                          )ss:  
COUNTY OF Lucas )

RECEIVED

AUG 05 2013

ELECTRICAL  
DIVISION

Sworn to before me and subscribed in my presence this 31 day of July, 2013.

*Christine J. Elsworth* (Christine J. Elsworth)  
Notary Public



CHRISTINE ELSWORTH  
Notary Public, State of Ohio  
My Commission Expires  
June 16, 2016

TED STRICKLAND, GOVERNOR  
Cynthia Y. Hunsberger, Registrar, DMV  
4852TU14898070100

USA DRIVER LICENSE

WEST  
AGE

ISSUE DATE  
06-15-2010

RESTR  
A

Sex: M 15 Ht: 5-11 12 Wt: 175  
Eyes: BLU 19 Hair: BRO

OHIO  
CLASS D



RECEIVED  
AUG 05 2013  
ELECTRICAL  
DIVISION

STATE OF OHIO

# Certificate of Completion of Apprenticeship

ISSUED BY  
THE OHIO STATE APPRENTICESHIP COUNCIL

RECEIVED  
AUG 05 2010

*This is to certify that:* GEORGE H. WEST, JR.  
*has fulfilled the terms of the apprenticeship agreement in accordance with the registered standards and requirements, with related instruction and is hereby recognized and qualified as a journey person*  
**ELECTRICIAN**

*together with all the rights, privileges and opportunities which everywhere pertain thereto.*

*In testimony whereof, the Ohio State Apprenticeship Council of the Ohio Department of Job and Family Services in cooperation with the Bureau of Apprenticeship and Training, U.S. Department of Labor, do affix the Great Seal of the State of Ohio.*

*Witnessed Over Our Signatures and Seal:*



*Sponsored by:*

ABC - NOC

Broadview Heights, OH

*Given at Columbus in the State of Ohio,*

this 25th day of March A.D. 2010

*[Signature]*  
DIRECTOR, OHIO STATE APPRENTICESHIP COUNCIL

*[Signature]*  
CHAIRMAN, OHIO STATE APPRENTICESHIP COUNCIL

**TED STRICKLAND**  
GOVERNOR OF OHIO

**John R. Kasich**  
Governor

**Jayme Brown**  
Interim Director

LICENSE MUST BE POSTED ON JOB SITE

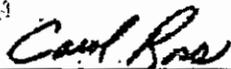
LICENSE MUST BE POSTED ON JOB SITE

**Electrical**  
**CONTRACTOR'S LICENSE**  
**JOHN F KING**  
**KING ELECTRIC SERVICES INC (Toledo, OH)**

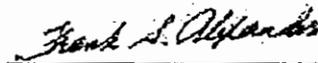
PRESIDENT

Ohio License# **17953**

Expiration Date: **March 31, 2014**



**Carol A. Ross**  
Board Secretary



**Frank S. Alexander**  
Administrative Chairperson

**ELECTRICAL CONTRACTOR LICENSE  
ISSUED BY THE ELECTRICAL ADMINISTRATIVE BOARD**

CONTRACTOR OF RECORD - RODNEY R KUSIC  
MASTER - KUSIC, RODNEY R

KUSIC, RODNEY  
[REDACTED]

LICENSE NO.      EXPIRATION DATE  
6110103          12/31/2015

RICK SNYDER  
GOVERNOR

**MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES**

**ELECTRICAL CONTRACTOR LICENSE  
ISSUED BY  
THE ELECTRICAL ADMINISTRATIVE BOARD**

CONTRACTOR OF RECORD - RODNEY R KUSIC  
MASTER - KUSIC, RODNEY R

KUSIC, RODNEY  
[REDACTED]

LICENSE NO.      EXPIRATION DATE  
6110103          12/31/2015

THIS DOCUMENT IS DULY  
ISSUED UNDER THE LAWS OF  
THE STATE OF MICHIGAN

RECEIVED

SEP 13 2013

ELECTRICAL  
DIVISION

MASTER ELECTRICIAN LICENSE  
ISSUED BY THE ELECTRICAL ADMINISTRATIVE BOARD

EMPLOYER - RODNEY R KUSIC

KUSIC, RODNEY R  
[REDACTED]

LICENSE NO.            EXPIRATION DATE  
6209995                12/31/2013

RICK SNYDER  
GOVERNOR

MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES

MASTER ELECTRICIAN LICENSE  
ISSUED BY  
THE ELECTRICAL ADMINISTRATIVE BOARD

EMPLOYER - RODNEY R KUSIC

KUSIC, RODNEY R  
[REDACTED]

BCC-860 (5/11)      LICENSE NO.            EXPIRATION DATE  
                                 6209995                12/31/2013

THIS DOCUMENT IS DULY  
ISSUED UNDER THE LAWS OF  
THE STATE OF MICHIGAN

RECEIVED  
SEP 13 2013  
ELECTRICAL  
DIVISION



Department  
of Commerce

Division of Industrial Compliance

John R. Kasich, Governor  
David Goodman, Director

Ohio

199 3 2 199

ELECTRICAL  
DIVISION

**LICENSE QUALIFICATION PROCESS**

The Ohio Construction Industry Licensing Board (O.C.I.L.B.), Department of Commerce, Division of Industrial Compliance, issues state commercial licenses to the following contractors: electrical, HVAC, hydronics, plumbing, and refrigeration. To receive a state license, an applicant must meet the following requirements: 1) be at least 18 years of age; 2) be a United States citizen or a legal alien-must provide proof of being a legal alien; 3) either have been a tradesperson in the type of licensed trade for which the application is filed for not less than five years immediately prior to the date the application is filed, currently be a registered engineer in this state with three years of business experience in the construction industry in the trade for which the engineer is applying to take the examination, or have other experience acceptable to the appropriate section of the board; 4) Never have been convicted of a disqualifying offense as defined in S.B. 337; 5) pass the examination in the trade; 6) carry minimum \$500,000 contractor liability coverage; 7) pay the applicable fees.

**TO QUALIFY TO SIT FOR THE EXAMINATION**

Complete the attached exam application. Item nine (9) on the exam application: Dates of employment must have start and end month, day and year to verify five (5) years working experience in that trade with no breaks in that five year history immediately prior to completing the application. You must be able to show the last 5 years as a tradesperson working under a licensed contractor on projects that required a permit. Attach at least one permit for each of the last five years and the license number of the contractor you worked under. Be specific in nature of duties, or be a currently registered engineer in this state with three years of business experience in the construction industry in the trade for which the engineer is applying to take an examination, or other experience acceptable to the Board under OAC 4101:16-3-02. Attach copies of any other documentation that would support your credentials such as local registrations, W-2's, signed contracts, invoices, verification of employment on company letterhead, etc. The application **MUST** be notarized. Incomplete applications will delay the process. **PLEASE REMOVE (cross out) SOCIAL SECURITY NUMBER FROM ALL DOCUMENTATION!**

Mail the completed O.C.I.L.B. examination application/Homeland Security declaration page along with a \$25 nonrefundable check or money order made payable to "Treasurer, State of Ohio" to the following address:

OHIO DEPARTMENT OF COMMERCE  
OHIO CONSTRUCTION INDUSTRY LICENSING BOARD (OCILB)  
6606 TUSSING ROAD, P.O. BOX 4009  
REYNOLDSBURG, OH 43068-9009

The application will be reviewed by the Board to determine eligibility to sit for the examination. The applicant will be notified by mail of the results of the Board's review. **BE ADVISED, ONCE YOU HAVE BEEN APPROVED BY THE BOARD, YOU ARE REQUIRED TO OBTAIN A BCI and FBI BACKGROUND CHECK PRIOR TO SITTING FOR THE EXAMINATION.** Approval is good for one year.

Approved applicants will be provided with a Candidate Information Bulletin which contains detailed instructions on how to schedule to take the exam. All licensure exams are computer based testing by appointment at sites throughout Ohio & the U.S. Individuals who take the examination will receive a notice advising them of their examination pass/fail status at the completion of their exam. Those who pass both sections of the examination can receive a state license by sending the following information to O.C.I.L.B: 1) a copy of the examination results, 2) a \$25 check made payable to "Treasurer, State of Ohio", and 3) proof of \$500,000 minimum contractor liability insurance "CERTIFICATE OF LIABILITY INSURANCE" (with the actual policy number listed). Submit the required information to the Ohio Construction Industry Licensing Board (OCILB), 6606 Tussing Road, P.O. Box 4009, Reynoldsburg, OH 43068-9009.



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

Date Mailed from BCC: 10-29-2013

George H. West  


Document E-13-64  
Exam Applicant Review

**NOTICE OF MICHIGAN ADMINISTRATIVE ELECTRICAL BOARD MEETING**

You are hereby notified that in accordance with the Administrative Procedures Act, 1969 PA 306, MCL 24.201 *et seq.*, and the Electrical Administrative Act being 1956 PA 217 MCL 338.881 *et seq.*, you are scheduled to appear before the Michigan Electrical Administrative Board on:

Date: November 7, 2013  
Time: 9:30 a.m.  
Location: Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes  
2501 Woodlake Circle, Conference Room 3  
Okemos, MI 48864

This notice is to provide you the opportunity to provide testimony to the board regarding your experience and eligibility to sit for the journeyman electrician exam. If you wish to offer any document(s) into evidence, you must file the documentation with the Electrical Division prior to the meeting or bring fifteen (15) copies of the information you wish to enter for the board's consideration. In the event you are unable to attend the meeting or you choose not to appear before the board, please contact the Electrical Division in advance of the meeting. In the event that you fail to appear at the meeting as scheduled, a decision may be entered in your absence.

Accompanying this notice is a report outlining our findings and recommendation based upon the Electrical Administrative Act being 1956 PA 217 MCL and the documentation you have provided at the time of mailing. Any questions regarding this matter may be directed to the Electrical Division at (517) 241-9320.

  
Dan O'Donnell, Chief, Electrical Division

10/29/2013  
Date

*Providing for Michigan's Safety in the Built Environment*

LARA is an equal opportunity employer  
Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.  
P.O. BOX 30254 • LANSING, MICHIGAN 48909  
www.michigan.gov/bcc • Telephone (517) 241-9302 • Fax (517) 241-9570

Exam Applicant Review  
George H. West  
Document No. E-13-64  
November 7, 2013  
Page 2 of 4

**PROOF OF SERVICE**

I hereby state, to the best of my knowledge, information, and belief, that a copy of the foregoing document was served on this date upon all parties and/or attorneys of record in this matter by email to those parties employed by the State of Michigan and by first class mail to the remaining parties at their respective addresses as disclosed below.

*Toni Nelson*

\_\_\_\_\_  
Toni Nelson, Secretary  
Electrical Division  
Bureau of Construction Codes

*10/29/2013*

\_\_\_\_\_  
Date

George H. West



BCC Administration



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

November 7, 2013

E-13-65

TO: Members of the State Electrical Administrative Board

FROM: Dan O'Donnell, Chief, Electrical Division

SUBJECT: Journeyman electrician examination application

**APPLICANT REPRESENTATIVE:**

Aaron T. Kranz

**PROJECT:**

N/A

**AUTHORITY:**

The Michigan Electrical Administrative Act, 1956 PA 217 of the Michigan Compiled Laws.

The Electrical Administrative Board General Rules

**REQUEST:**

Request to petition the Electrical Administrative Board to sit for the journeyman electrician examination.

**APPLICABLE RULE:**

1956 PA 217, MCL 338.883a Sec. 3a. (c), MCL 338.883d Sec. 3d. (1), (a), (b), (c), (d), Administrative Board General Rules R338.1005a Rule 5a. (1), (2), (3), R338.1006a Rule 6a (1), (3), (4).

**FINDINGS:**

Mr. Kranz submitted an application to sit for the journeyman electrician examination. The documentation that Mr. Kranz submitted indicates that since August 2007 he has

*Providing for Michigan's Safety in the Built Environment*

9232 hours of electrical experience while employed by King Electric Services INC. in Toledo Ohio under the supervision of master electrician Rodney Kusic, State of Michigan master electrician license number 6209995. Mr. Kranz information also indicates that he completed 576 hours an electrical training through the ABC Chapter of Northern Ohio and National Center for Construction Education and Research (NCCER).

**RECOMMENDATION:**

In accordance with the acts and rules listed above staff concludes that Mr. Kranz meets the requirements to sit for the State of Michigan journeyman electrician examination and recommends that the board approve his application.

**Application for Journeyman Electrician Examination**  
 Michigan Department of Licensing and Regulatory Affairs  
 Bureau of Construction Codes / Electrical Division  
 P.O. Box 30255, Lansing, MI 48909  
 517-241-9320  
 www.michigan.gov/bcc

Agency Use Only

6337590

**Examination Fee: \$100.00 (nonrefundable)**

|   |  |
|---|--|
| Authority: 1958 PA 217<br>Completion: Mandatory<br>Penalty: Examination will not be given | LARA is an equal opportunity employer/program. Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. |
|---|--|

**Instructions:** To be eligible to make application for and take this examination an applicant shall meet the following criteria:

- Complete and sign application. Type or print in ink.
- Application and fee must be received 20 business days prior to the examination date.
- Applicant must not be less than 20 years of age.
- Provide **original notarized** documentation from present or former employers to the effect that the applicant has not less than 8,000 hours of practical experience obtained over a period of not less than 4 years related to electrical construction or electrical maintenance of buildings under direct supervision of a person licensed pursuant to the act. Documentation must include the beginning (month, day, year) to ending (month, day, year) dates of employment. The 8,000 hours of practical work experience over 4 years must be attained prior to the deadline date for submitting documentation. **Notarized**, original documentation must be on employers' letterhead stationery and provide dates of employment and hours worked under licensed supervision and signed by the qualified master electrician.
- Enclose a check made payable to the **State of Michigan**.
- Mail completed application, required documents, and payment to the address listed above.

**Information**

Applicants are permitted one examination for the \$100.00 fee. Upon achieving a minimum passing score of 75% or higher, the applicant will be billed \$40.00 for the journeyman electrician license prior to issuance of the license. Failure of examination 2 times within 2 years requires 1 year waiting period from the date of the second failure and proof of successful completion of a course on code, electrical fundamentals or theory to be eligible for reexamination. Examination fee is forfeited upon failure to appear for scheduled examination unless written explanation is received within 10 business days of the examination.

**Examination Eligibility of Applicants From Other States or Countries**

A person who is licensed as a journeyman electrician in another state or country may qualify for examination upon determination by the board that the license was obtained by the person through substantially the same or equal requirements as those of the state of Michigan in accordance with the provisions of section 3a of the act.

**Applicant Information**

|   |                     |                             |   |
|---|---------------------|-----------------------------|---|
| NAME (Last Name, First Name, Middle Initial)<br>Krawz, Aaron, T |                     | DATE OF BIRTH<br>[REDACTED] | LAST 4 DIGITS OF SOCIAL SECURITY NUMBER*<br>XXX-XX-[REDACTED] |
| ADDRESS<br>[REDACTED]   | CITY<br>[REDACTED]  | TOWNSHIP                    |   |
| COUNTY<br>[REDACTED]  | STATE<br>[REDACTED] | ZIP CODE<br>[REDACTED]      | TELEPHONE NUMBER (Include Area Code)<br>[REDACTED]            |

Have you previously taken this examination?  Yes  No

If examination was not administered by the State Electrical Division provide the licensing entity:  
 City of \_\_\_\_\_ Township of \_\_\_\_\_

**Examination Site**

Examinations are given at the sites listed below. Refer to the enclosed "Schedule of Electrical Board Meetings and Licensing Examinations" for examination dates. Please check below the site you wish to be examined at and indicate a preference of examination month. If approved for examination, an admission card will be mailed to you approximately 10 days prior to the examination date. If the examination you have selected is full, you will be scheduled for the next available examination at your preferred site.

|   |                        |
|---|------------------------|
| <u>Preferred Site</u>                       | <u>Preferred Month</u> |
| <input checked="" type="checkbox"/> Lansing | 8-29-13                |
| <input type="checkbox"/> Escanaba           | _____                  |

AUG 05 2013

ELECTRICAL DIVISION

If you have a disability and require an accommodation to take the examination, please submit written documentation from a professional (education professional, doctor, psychologist, psychiatrist) to certify that your disabling condition requires the requested test accommodation. Forms are available from this office.

\*This information is confidential. Disclosure of confidential information is protected by the Federal Privacy Act.

**Experience Record (attach additional sheets if necessary)**

|   |                        |  |                          |
|---|------------------------|--|--------------------------|
| NAME OF CURRENT EMPLOYER<br><b>KING ELECTRICAL SERVICES</b>           |                        | DATES OF EMPLOYMENT (MM/DD/YY)<br>BEGINNING: <b>8/27/07</b> ENDING: <b>CURRENT</b> |                          |
| ADDRESS<br><b>1952 W. SYLVANIA</b>                                    | CITY<br><b>TULCLOD</b> | STATE<br><b>OH</b>   | ZIP CODE<br><b>43613</b> |
| TYPE OF WORK PERFORMED<br><b>RESIDENTIAL, COMMERCIAL @ INDUSTRIAL</b> |                        |  |                          |
| NAME OF EMPLOYER  |                        | DATES OF EMPLOYMENT (MM/DD/YY)   |                          |
| ADDRESS   | CITY                   | STATE  | ZIP CODE                 |
| TYPE OF WORK PERFORMED  |                        |  |                          |

**Certification and Signature of Applicant**

I certify the information provided is true and accurate to the best of my ability and I have the experience required for this examination. I further understand fraud or deceit in obtaining a license is grounds for administrative action in accordance with the act.

|  |                        |
|--|------------------------|
| APPLICANT'S SIGNATURE<br> | DATE<br><b>7/31/13</b> |
|--|------------------------|

**Agency Use Only**

Approved for Exam     Yes     No

| Date of Exam | Score | Absent | Date of Exam | Score | Absent |
|--------------|-------|--------|--------------|-------|--------|
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |

**Validation Area**

Tran Info: 103 181K/295-2 08/01/13  
 Chk#: 6630 Amt: \$100.00  
 ID: KING ELECTRICAL SERVICES INC

Date Approved by EAB \_\_\_\_\_

RECEIVED

AUG 05 2013

ELECTRICAL  
DIVISION



# KING ELECTRICAL SERVICES

1952 W. SYLVANIA AVE.  
TOLEDO, OHIO 43613  
(419) 472-6911  
(419) 472-0866 FAX

INDUSTRIAL  
COMMERCIAL  
RESIDENTIAL

July 26, 2013

Michigan Department of Licensing  
Bureau of Construction Codes/Electrical Division  
P.O. Box 30255  
Lansing, MI 48909

Re: Aaron Kranz

To Whom It May Concern

This letter is in reference to the above employee, Aaron Kranz. He has been employed by King Electric from August 27, 2007 to present. He has a total of 9232 hours, not including overtime. He has been working under the supervision of myself, Rodney Kusic. The first year of his apprenticeship he primarily performed basic residential electrical work, as well as some commercial. The second year he performed residential and commercial. His third and fourth year he performed residential, including panel changes, commercial and some industrial work.

Sincerely,

Rodney Kusic  
Master Electrician

RECEIVED

AUG 05 2013

ELECTRICAL  
DIVISION

STATE OF Ohio )  
                          )ss:  
COUNTY OF Lucas )

Sworn to before me and subscribed in my presence this 31 day of July, 2013.

*Christine Jones (Christine J. Elsworth)*  
Notary Public



CHRISTINE ELSWORTH  
Notary Public, State of Ohio  
My Commission Expires  
June 16, 2016

OHIO DEPARTMENT OF PUBLIC SAFETY  
DIVISION OF MOTOR VEHICLES

4811TY2190910000

USA **Ohio** DRIVER LICENSE

1 KRANZ  
2 AARON T

3 [REDACTED]

4 LICENSE NO. 123456789

5 ISSUES 06-25-11

6 CLASS & EXPIRES D 09-27-2014

7 ENDGRS RESTR A

8 Sex: M 15 Ht: 5-07 17 Wt: 160  
18 Eyes: GRN 19 Hair: RED



RECEIVED

AUG 05 2013

ELECTRICAL  
DIVISION



RECEIVED

AUG 05 2013

ELECTRICAL  
DIVISION

**Associated Builders & Contractors, Inc.  
Northern Ohio Chapter**

*Hereby Certifies that*

*Aaron Krantz*

*Has Successfully Completed 576 Hours of ABC/NCCER Training  
In the Electrical Trade*

**Certified this 9<sup>th</sup> day of June 2011**

*Therese Gallagher*

**Therese Gallagher  
Director of Apprenticeship**

*Scott Givens*

**Scott Givens  
Apprenticeship Committee Chairperson**

**ELECTRICAL CONTRACTOR LICENSE  
ISSUED BY THE ELECTRICAL ADMINISTRATIVE BOARD**

CONTRACTOR OF RECORD - RODNEY R KUSIC  
MASTER - KUSIC, RODNEY R

KUSIC, RODNEY



LICENSE NO.      EXPIRATION DATE  
6110103      12/31/2015

RICK SNYDER  
GOVERNOR

**MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES**

**ELECTRICAL CONTRACTOR LICENSE  
ISSUED BY  
THE ELECTRICAL ADMINISTRATIVE BOARD**

CONTRACTOR OF RECORD - RODNEY R KUSIC  
MASTER - KUSIC, RODNEY R

KUSIC, RODNEY



LICENSE NO.      EXPIRATION DATE  
6110103      12/31/2015

THIS DOCUMENT IS DULY  
ISSUED UNDER THE LAWS OF  
THE STATE OF MICHIGAN

RECEIVED

SEP 13 2013

ELECTRICAL  
DIVISION

**MASTER ELECTRICIAN LICENSE  
ISSUED BY THE ELECTRICAL ADMINISTRATIVE BOARD**

EMPLOYER - RODNEY R KUSIC

KUSIC, RODNEY R  
[REDACTED]

LICENSE NO.      EXPIRATION DATE  
6209995          12/31/2013

RICK SNYDER  
GOVERNOR

MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES

**MASTER ELECTRICIAN LICENSE  
ISSUED BY  
THE ELECTRICAL ADMINISTRATIVE BOARD**

EMPLOYER - RODNEY R KUSIC

KUSIC, RODNEY R  
[REDACTED]

BCC-860 (5/11)      LICENSE NO.      EXPIRATION DATE  
6209995          12/31/2013

THIS DOCUMENT IS DULY  
ISSUED UNDER THE LAWS OF  
THE STATE OF MICHIGAN

RECEIVED  
SEP 13 2013  
ELECTRICAL  
DIVISION

**John R. Kasich**  
Governor

**Jaymie Brown**  
Interim Director

LICENSE MUST BE POSTED ON JOB SITE

LICENSE MUST BE POSTED ON JOB SITE

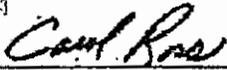
**Electrical**  
**CONTRACTOR'S LICENSE**

**JOHN F KING**  
KING ELECTRIC SERVICES INC (Toledo, OH)

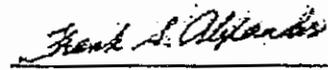
PRESIDENT

Ohio License# **17953**

Expiration Date: **March 31, 2014**



**Carol A. Ross**  
Board Secretary



**Frank S. Alexander**  
Administrative Chairperson



Department  
of Commerce

Division of Industrial Compliance

John R. Kasich, Governor  
David Goodman, Director

Ohio

APR 12 2012  
ELECTRICAL  
DIVISION

**LICENSE QUALIFICATION PROCESS**

The Ohio Construction Industry Licensing Board (O.C.I.L.B.), Department of Commerce, Division of Industrial Compliance, issues state commercial licenses to the following contractors: electrical, HVAC, hydronics, plumbing, and refrigeration. To receive a state license, an applicant must meet the following requirements: 1) be at least 18 years of age; 2) be a United States citizen or a legal alien-must provide proof of being a legal alien; 3) either have been a tradesperson in the type of licensed trade for which the application is filed for not less than five years immediately prior to the date the application is filed, currently be a registered engineer in this state with three years of business experience in the construction industry in the trade for which the engineer is applying to take the examination, or have other experience acceptable to the appropriate section of the board; 4) Never have been convicted of a disqualifying offense as defined in S.B. 337; 5) pass the examination in the trade; 6) carry minimum \$500,000 contractor liability coverage; 7) pay the applicable fees.

**TO QUALIFY TO SIT FOR THE EXAMINATION**

Complete the attached exam application. Item nine (9) on the exam application: Dates of employment must have start and end month, day and year to verify five (5) years working experience in that trade with no breaks in that five year history immediately prior to completing the application. You must be able to show the last 5 years as a tradesperson working under a licensed contractor on projects that required a permit. Attach at least one permit for each of the last five years and the license number of the contractor you worked under. Be specific in nature of duties, or be a currently registered engineer in this state with three years of business experience in the construction industry in the trade for which the engineer is applying to take an examination, or other experience acceptable to the Board under OAC 4101:16-3-02. Attach copies of any other documentation that would support your credentials such as local registrations, W-2's, signed contracts, invoices, verification of employment on company letterhead, etc. The application **MUST** be notarized. Incomplete applications will delay the process. **PLEASE REMOVE (cross out) SOCIAL SECURITY NUMBER FROM ALL DOCUMENTATION!**

Mail the completed O.C.I.L.B. examination application/Homeland Security declaration page along with a \$25 nonrefundable check or money order made payable to "Treasurer, State of Ohio" to the following address:

OHIO DEPARTMENT OF COMMERCE  
OHIO CONSTRUCTION INDUSTRY LICENSING BOARD (OCILB)  
6606 TUSSING ROAD, P.O. BOX 4009  
REYNOLDSBURG, OH 43068-9009

The application will be reviewed by the Board to determine eligibility to sit for the examination. The applicant will be notified by mail of the results of the Board's review. **BE ADVISED, ONCE YOU HAVE BEEN APPROVED BY THE BOARD, YOU ARE REQUIRED TO OBTAIN A BCI and FBI BACKGROUND CHECK PRIOR TO SITTING FOR THE EXAMINATION.** Approval is good for one year.

Approved applicants will be provided with a Candidate Information Bulletin which contains detailed instructions on how to schedule to take the exam. All licensure exams are computer based testing by appointment at sites throughout Ohio & the U.S. Individuals who take the examination will receive a notice advising them of their examination pass/fail status at the completion of their exam. Those who pass both sections of the examination can receive a state license by sending the following information to O.C.I.L.B: 1) a copy of the examination results, 2) a \$25 check made payable to "Treasurer, State of Ohio", and 3) proof of \$500,000 minimum contractor liability insurance "CERTIFICATE OF LIABILITY INSURANCE" (with the actual policy number listed). Submit the required information to the Ohio Construction Industry Licensing Board (OCILB), 6606 Tussing Road, P.O. Box 4009, Reynoldsburg, OH 43068-9009.

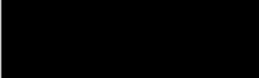


RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

Date Mailed from BCC: 10-29-2013

Aaron T. Kranz  


Document E-13-65  
Exam Applicant Review

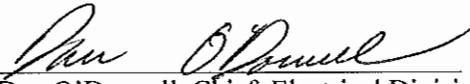
**NOTICE OF MICHIGAN ADMINISTRATIVE ELECTRICAL BOARD MEETING**

You are hereby notified that in accordance with the Administrative Procedures Act, 1969 PA 306, MCL 24.201 *et seq.*, and the Electrical Administrative Act being 1956 PA 217 MCL 338.881 *et seq.*, you are scheduled to appear before the Michigan Electrical Administrative Board on:

Date: November 7, 2013  
Time: 9:30 a.m.  
Location: Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes  
2501 Woodlake Circle, Conference Room 3  
Okemos, MI 48864

This notice is to provide you the opportunity to provide testimony to the board regarding your experience and eligibility to sit for the journeyman electrician exam. If you wish to offer any document(s) into evidence, you must file the documentation with the Electrical Division prior to the meeting or bring fifteen (15) copies of the information you wish to enter for the board's consideration. In the event you are unable to attend the meeting or you choose not to appear before the board, please contact the Electrical Division in advance of the meeting. In the event that you fail to appear at the meeting as scheduled, a decision may be entered in your absence.

Accompanying this notice is a report outlining our findings and recommendation based upon the Electrical Administrative Act being 1956 PA 217 MCL and the documentation you have provided at the time of mailing. Any questions regarding this matter may be directed to the Electrical Division at (517) 241-9320.

  
Dan O'Donnell, Chief, Electrical Division

10/29/2013  
Date

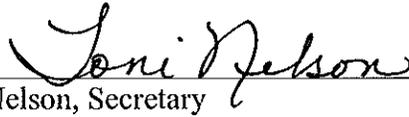
*Providing for Michigan's Safety in the Built Environment*

LARA is an equal opportunity employer  
Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.  
P.O. BOX 30254 • LANSING, MICHIGAN 48909  
www.michigan.gov/bcc • Telephone (517) 241-9302 • Fax (517) 241-9570

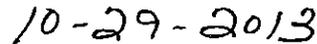
Exam Applicant Review  
Aaron T. Kranz  
Document No. E-13-65  
November 7, 2013  
Page 2 of 4

**PROOF OF SERVICE**

I hereby state, to the best of my knowledge, information, and belief, that a copy of the foregoing document was served on this date upon all parties and/or attorneys of record in this matter by email to those parties employed by the State of Michigan and by first class mail to the remaining parties at their respective addresses as disclosed below.



\_\_\_\_\_  
Toni Nelson, Secretary  
Electrical Division  
Bureau of Construction Codes



\_\_\_\_\_  
Date

Aaron T. Kranz



BCC Administration



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

November 7, 2013

E-13-66

TO: Members of the State Electrical Administrative Board

FROM: Dan O'Donnell, Chief, Electrical Division

SUBJECT: Journeyman electrician examination application

**APPLICANT REPRESENTATIVE:**

Garth Lee Ryan

**PROJECT:**

N/A

**AUTHORITY:**

The Michigan Electrical Administrative Act, 1956 PA 217 of the Michigan Compiled Laws.

The Electrical Administrative Board General Rules

**REQUEST:**

Request to petition the Electrical Administrative Board to sit for the journeyman electrician examination.

**APPLICABLE RULE:**

1956 PA 217, MCL 338.883a Sec. 3a. (c), MCL 338.883d Sec. 3d. (1), (a), (b), (c), (d), Administrative Board General Rules R338.1005a Rule 5a. (1), (2), (3), R338.1006a Rule 6a (1), (3), (4).

**FINDINGS:**

Mr. Ryan submitted an application to sit for the journeyman electrician examination. Mr. Ryan submitted documentation that indicates that he has a minimum of 8352 hours

*Providing for Michigan's Safety in the Built Environment*

of electrical experience employed by licensed electrical contractors in the State of Colorado through IBEW Local 68 in Denver, Colorado. Mr. Ryan also included documentation that he completed a 5 year electrical apprenticeship through Local 68 and the NJATC. Mr. Ryan is currently licensed as a journeyman electrician in Colorado.

**RECOMMENDATION:**

In accordance with the acts and rules listed above staff concludes that Mr. Ryan meets the requirements to sit for the State of Michigan journeyman electrician examination and recommends that the board approve his application.

**Application for Journeyman Electrician Examination**  
 Michigan Department of Licensing and Regulatory Affairs  
 Bureau of Construction Codes / Electrical Division  
 P.O. Box 30255, Lansing, MI 48909  
 517-241-9320  
 www.michigan.gov/bcc

Agency Use Only

6337613

**Examination Fee: \$100.00 (nonrefundable)**

|   |  |
|---|--|
| Authority: 1956 PA 217<br>Completion: Mandatory<br>Penalty: Examination will not be given | LARA is an equal opportunity employer/program. Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. |
|---|--|

**Instructions:** To be eligible to make application for and take this examination an applicant shall meet the following criteria:

- Complete and sign application. Type or print in ink.
- Application and fee must be received 20 business days prior to the examination date.
- Applicant must not be less than 20 years of age.
- Provide **original notarized** documentation from present or former employers to the effect that the applicant has not less than 8,000 hours of practical experience obtained over a period of not less than 4 years related to electrical construction or electrical maintenance of buildings under direct supervision of a person licensed pursuant to the act. Documentation must include the beginning (month, day, year) to ending (month, day, year) dates of employment. The 8,000 hours of practical work experience over 4 years must be attained prior to the deadline date for submitting documentation. **Notarized**, original documentation must be on employers' letterhead stationery and provide dates of employment and hours worked under licensed supervision and signed by the qualified master electrician.
- Enclose a check made payable to the **State of Michigan**.
- Mail completed application, required documents, and payment to the address listed above.

**Information**

Applicants are permitted one examination for the \$100.00 fee. Upon achieving a minimum passing score of 75% or higher, the applicant will be billed \$40.00 for the journeyman electrician license prior to issuance of the license. Failure of examination 2 times within 2 years requires 1 year waiting period from the date of the second failure and proof of successful completion of a course on code, electrical fundamentals or theory to be eligible for reexamination. Examination fee is forfeited upon failure to appear for scheduled examination unless written explanation is received within 10 business days of the examination.

**Examination Eligibility of Applicants From Other States or Countries**

A person who is licensed as a journeyman electrician in another state or country may qualify for examination upon determination by the board that the license was obtained by the person through substantially the same or equal requirements as those of the state of Michigan in accordance with the provisions of section 3a of the act.

**Applicant Information**

|  |                     |                             |   |
|--|---------------------|-----------------------------|---|
| NAME (Last Name, First Name, Middle Initial)<br><b>Ryan, Garth Lee</b> |                     | DATE OF BIRTH<br>[REDACTED] | LAST 4 DIGITS OF SOCIAL SECURITY NUMBER*<br>XXX-XX-[REDACTED] |
| ADDRESS<br>[REDACTED]  | CITY<br>[REDACTED]  | TOWNSHIP<br>[REDACTED]      |   |
| COUNTY<br>[REDACTED]   | STATE<br>[REDACTED] | ZIP CODE<br>[REDACTED]      | TELEPHONE NUMBER (Include Area Code)<br>[REDACTED]            |

Have you previously taken this examination?  Yes  No

If examination was not administered by the State Electrical Division provide the licensing entity:  
 City of \_\_\_\_\_ Township of \_\_\_\_\_

**Examination Site**

Examinations are given at the sites listed below. Refer to the enclosed "Schedule of Electrical Board Meetings and Licensing Examinations" for examination dates. Please check below the site you wish to be examined at and indicate a preference of examination month. If approved for examination, an admission card will be mailed to you approximately 10 days prior to the examination date. If the examination you have selected is full, you will be scheduled for the next available examination at your preferred site.

|   |                        |
|---|------------------------|
| <u>Preferred Site</u>                       | <u>Preferred Month</u> |
| <input checked="" type="checkbox"/> Lansing | <u>November</u>        |
| <input type="checkbox"/> Escanaba           | _____                  |

AUG 22 2013

ELECTRICAL DIVISION

If you have a disability and require an accommodation to take the examination, please submit written documentation from a professional (education professional, doctor, psychologist, psychiatrist) to certify that your disabling condition requires the requested test accommodation. Forms are available from this office.

\*This information is confidential. Disclosure of confidential information is protected by the Federal Privacy Act.

**Experience Record (attach additional sheets if necessary)**

|  |                       |  |                          |
|--|-----------------------|--|--------------------------|
| NAME OF CURRENT EMPLOYER<br><i>Mass. Electric Construction</i> |                       | DATES OF EMPLOYMENT (MM/DD/YYYY)<br>BEGINNING: <i>10/01/2012</i> ENDING: <i>6/07/2013</i>  |                          |
| ADDRESS<br><i>4990 Regent Blvd. Ste 100</i>                    | CITY<br><i>Irving</i> | STATE<br><i>Tx</i>   | ZIP CODE<br><i>75063</i> |
| TYPE OF WORK PERFORMED<br><i>General Electrical Work.</i>      |                       |  |                          |
| NAME OF EMPLOYER<br><i>Gard Construction Services, inc</i>     |                       | DATES OF EMPLOYMENT (MM/DD/YYYY)<br>BEGINNING: <i>06/01/2012</i> ENDING: <i>08/01/2012</i> |                          |
| ADDRESS<br><i>2516 S. Rifle St.</i>                            | CITY<br><i>Aurora</i> | STATE<br><i>Co</i>   | ZIP CODE<br><i>80013</i> |
| TYPE OF WORK PERFORMED<br><i>General electrical work.</i>      |                       |  |                          |

**Certification and Signature of Applicant**

I certify the information provided is true and accurate to the best of my ability and I have the experience required for this examination. I further understand fraud or deceit in obtaining a license is grounds for administrative action in accordance with the act.

|                       |      |
|-----------------------|------|
| APPLICANT'S SIGNATURE | DATE |
|                       |      |

**Agency Use Only**

Approved for Exam  Yes  No

| Date of Exam | Score | Absent | Date of Exam | Score | Absent |
|--------------|-------|--------|--------------|-------|--------|
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |

Date Approved by EAB \_\_\_\_\_

**Validation Area**

Tran Info: 103 18802900-1 08/21/13  
 Chk#: 138330 Amt: \$100.00  
 ID: GARTH L RYAN

RECEIVED  
 AUG 22 2013  
 ELECTRICAL  
 DIVISION

**Experience Record (attach additional sheets if necessary)**

|   |                       |   |                          |  |
|---|-----------------------|---|--------------------------|--|
| NAME OF CURRENT EMPLOYER<br><b>Smittick Electric LLC</b>    |                       | DATES OF EMPLOYMENT (MM/DD/YY)<br>BEGINNING: <b>3/01/2012</b> ENDING: <b>6/01/12</b>    |                          |  |
| ADDRESS<br><b>17395 E. Caspian Pl</b>                       | CITY<br><b>Aurora</b> | STATE<br><b>CO</b>  | ZIP CODE<br><b>80013</b> |  |
| TYPE OF WORK PERFORMED<br><b>General electrical work.</b>   |                       |   |                          |  |
| NAME OF EMPLOYER<br><b>Guarantee Electrical Contracting</b> |                       | DATES OF EMPLOYMENT (MM/DD/YY)<br>BEGINNING: <b>10/01/2011</b> ENDING: <b>2/01/2012</b> |                          |  |
| ADDRESS<br><b>21250 E. 31st Cir.</b>                        | CITY<br><b>Aurora</b> | STATE<br><b>CO</b>  | ZIP CODE<br><b>80011</b> |  |
| TYPE OF WORK PERFORMED<br><b>General electrical work</b>    |                       |   |                          |  |

**Certification and Signature of Applicant**

I certify the information provided is true and accurate to the best of my ability and I have the experience required for this examination. I further understand fraud or deceit in obtaining a license is grounds for administrative action in accordance with the act.

|                       |      |
|-----------------------|------|
| APPLICANT'S SIGNATURE | DATE |
|                       |      |

**Agency Use Only**

Approved for Exam  Yes  No

| Date of Exam | Score | Absent | Date of Exam | Score | Absent |
|--------------|-------|--------|--------------|-------|--------|
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |

Date Approved by EAB \_\_\_\_\_

Validation Area

RECEIVED  
AUG 22 2013  
ELECTRICAL  
DIVISION

**Experience Record (attach additional sheets if necessary)**

|   |                               |   |                          |  |
|---|-------------------------------|---|--------------------------|--|
| NAME OF CURRENT EMPLOYER<br><b>Sturgeon Electric Company, Inc</b> |                               | DATES OF EMPLOYMENT (MM/DD/YY)<br>BEGINNING: <b>4/01/2008</b> ENDING: <b>10/01/2011</b> |                          |  |
| ADDRESS<br><b>12150 E. 112th Ave</b>                              | CITY<br><b>Henderson</b>      | STATE<br><b>Co</b>  | ZIP CODE<br><b>80640</b> |  |
| TYPE OF WORK PERFORMED<br><b>General electrical work</b>          |                               |   |                          |  |
| NAME OF EMPLOYER<br><b>B&amp;B Electric, Inc</b>                  |                               | DATES OF EMPLOYMENT (MM/DD/YY)<br>BEGINNING: <b>9/01/2007</b> ENDING: <b>8/01/2008</b>  |                          |  |
| ADDRESS<br><b>704 23 2/10 Rd</b>                                  | CITY<br><b>Grand Junction</b> | STATE<br><b>Co</b>  | ZIP CODE<br><b>81505</b> |  |
| TYPE OF WORK PERFORMED<br><b>General electrical work</b>          |                               |   |                          |  |

**Certification and Signature of Applicant**

I certify the information provided is true and accurate to the best of my ability and I have the experience required for this examination. I further understand fraud or deceit in obtaining a license is grounds for administrative action in accordance with the act.

|                       |      |
|-----------------------|------|
| APPLICANT'S SIGNATURE | DATE |
|                       |      |

**Agency Use Only**

Approved for Exam  Yes  No

| Date of Exam | Score | Absent | Date of Exam | Score | Absent |
|--------------|-------|--------|--------------|-------|--------|
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |

Validation Area

Date Approved by EAB \_\_\_\_\_

RECEIVED  
AUG 22 2013  
ELECTRICAL  
DIVISION



**Dora**  
Department of Regulatory Agencies

Barbara J. Kelley  
Executive Director



### Lookup Detail View

#### Name and Address

| Name                          | Public Address                                    |
|-------------------------------|---|
| Mass Electric Construction Co | 4790 Regent Blvd, Ste 100<br>Irving, TX 750630000 |

#### Credential Information

| License Number | License Method | License Type          | License Status | Original Issue Date | Effective Date | Expiration Date |
|----------------|----------------|-----------------------|----------------|---------------------|----------------|-----------------|
| EC.0004925     | Original       | Electrical Contractor | Active         | 10/15/1998          | 10/01/2011     | 09/30/2014      |

#### Supervision

| Relationship  | Supervisor/Supervisee | License    | Start Date | Relationship Type      |
|---------------|-----------------------|------------|------------|------------------------|
| Supervised By | William P Breen       | ME.0025526 | 10/15/1998 | Responsible Individual |

#### Board/Program Actions

| Discipline   |
|--|
| There is no Discipline or Board Actions on file for this credential. |

Generated on: 8/8/2013 1:04:06 PM

RECEIVED  
AUG 22 2013  
ELECTRICAL  
DIVISION



**Dora**  
Department of Regulatory Agencies

Barbara J. Kelley  
Executive Director



**Lookup Detail View**

**Name and Address**

| Name                            | Public Address                              |
|---------------------------------|---|
| Gard Construction Services, Inc | 2516 South Rifle Street<br>Aurora, CO 80013 |

**Credential Information**

| License Number | License Method | License Type          | License Status | Original Issue Date | Effective Date | Expiration Date |
|----------------|----------------|-----------------------|----------------|---------------------|----------------|-----------------|
| EC.0008153     | Original       | Electrical Contractor | Active         | 03/28/2003          | 10/01/2011     | 09/30/2014      |

**Supervision**

| Relationship  | Supervisor/Supervisee | License     | Start Date | Relationship Type      |
|---------------|-----------------------|-------------|------------|------------------------|
| Supervised By | Robert E Gard         | ME.0027981  | 03/28/2003 | Responsible Individual |
| Supervises    | James Donald Howard   | APE.9930538 | 08/31/2012 | Employer               |
| Supervises    | Julio L. Ruiz         | APE.0034864 | 11/08/2005 | Employer               |

**Board/Program Actions**

| Discipline   |
|--|
| There is no Discipline or Board Actions on file for this credential. |

Generated on: 8/8/2013 12:21:21 PM

RECEIVED  
AUG 22 2013  
ELECTRICAL  
DIVISION



**Dora**  
Department of Regulatory Agencies

Barbara J. Kelley  
Executive Director



**Lookup Detail View**

**Name and Address**

| Name                  | Public Address                             |
|-----------------------|--|
| Smittick Electric LLC | 17395 E CASPIAN PL<br>AURORA, CO 800131502 |

**Credential Information**

| License Number | License Method | License Type          | License Status | Original Issue Date | Effective Date | Expiration Date |
|----------------|----------------|-----------------------|----------------|---------------------|----------------|-----------------|
| EC.0005282     | Original       | Electrical Contractor | Active         | 02/03/2000          | 10/01/2011     | 09/30/2014      |

**Supervision**

| Relationship  | Supervisor/Supervisee | License     | Start Date | Relationship Type      |
|---------------|-----------------------|-------------|------------|------------------------|
| Supervised By | Lorne J Smittick      | ME.0026115  | 02/03/2000 | Responsible Individual |
| Supervises    | Derek Oneal Myles     | APE.0024025 | 11/19/2000 | Employer               |
| Supervises    | Gregory W Nealey      | APE.0029193 | 10/01/2002 | Employer               |
| Supervises    | Jayson Carter         | APE.0029357 | 10/21/2002 | Employer               |
| Supervises    | Jimmy G Martin        | APE.0024520 | 01/08/2001 | Employer               |
| Supervises    | Kerry Mehrens         | APE.0022094 | 05/25/2000 | Employer               |
| Supervises    | Michael Dorsey        | APE.0021023 | 03/22/2000 | Employer               |
| Supervises    | Reuel S Paris         | APE.0038767 | 03/13/2007 | Employer               |
| Supervises    | Steve Pulnam          | APE.0025851 | 06/19/2001 | Employer               |

**Board/Program Actions**

| Discipline   |
|--|
| There is no Discipline or Board Actions on file for this credential. |

Generated on: 8/8/2013 12:23:22 PM

RECEIVED  
AUG 22 2013  
ELECTRICAL  
DIVISION



**Dora**  
Department of Regulatory Agencies

Barbara J. Kelley  
Executive Director



**Lookup Detail View**

**Name and Address**

| Name                                   | Public Address                            |
|--|---|
| Guarantee Electrical Contracting, LLC. | 21260 E 31st Cir<br>Aurora, CO 80011-8138 |

**Credential Information**

| License Number | License Method | License Type          | License Status | Original Issue Date | Effective Date | Expiration Date |
|----------------|----------------|-----------------------|----------------|---------------------|----------------|-----------------|
| EC.0100095     | Original       | Electrical Contractor | Active         | 01/14/2013          | 01/14/2013     | 09/30/2014      |

**Supervision**

| Relationship  | Supervisor/Supervisee | License     | Start Date | Relationship Type      |
|---------------|-----------------------|-------------|------------|------------------------|
| Supervised By | Timothy E Proud       | ME.0028027  | 01/03/2013 | Responsible Individual |
| Supervises    | Johnathon I Noe       | APE.0038250 | 01/25/2013 | Employer               |

**Board/Program Actions**

| Discipline   |
|--|
| There is no Discipline or Board Actions on file for this credential. |

Generated on: 8/8/2013 12:22:06 PM

RECEIVED  
AUG 22 2013  
ELECTRICAL  
DIVISION



**Dora**

Department of Regulatory Agencies

Barbara J. Kelley  
Executive Director



**Lookup Detail View**

**Name and Address**

| Name                 | Public Address                           |
|----------------------|--|
| Sturgeon Elec Co Inc | 12150 E 112TH AVE<br>HENDERSON, CO 80640 |

**Credential Information**

| License Number | License Method | License Type          | License Status | Original Issue Date | Effective Date | Expiration Date |
|----------------|----------------|-----------------------|----------------|---------------------|----------------|-----------------|
| EC.0000003     | Original       | Electrical Contractor | Active         | 06/22/1968          | 10/01/2011     | 09/30/2014      |

**Supervision**

| Relationship  | Supervisor/Supervisee  | License     | Start Date | Relationship Type      |
|---------------|------------------------|-------------|------------|------------------------|
| Supervised By | Gary Alphonse Thlavage | ME.0001705  | 08/03/1998 | Responsible Individual |
| Supervises    | Kenneth Michael Hunter | APE.0043405 | 09/10/2009 | Employer               |

**Board/Program Actions**

| Discipline   |
|--|
| There is no Discipline or Board Actions on file for this credential. |

**Online Documents**

If you have trouble accessing documents from the links below, you may also try our [Registrations Online Documents \(ROD\) service](#).

| Link                          | Unique ID Number | DocType                        | DocSource |
|-------------------------------|------------------|--------------------------------|-----------|
| <a href="#">View Document</a> | 5784             | BOARD/PROGRAM ACTION DOCUMENTS | IMAGE     |

Generated on: 8/8/2013 12:22:57 PM

RECEIVED

AUG 22 2013

ELECTRICAL  
DIVISION



Barbara J. Kolley  
Executive Director



**Lookup Detail View**

**Name and Address**

| Name               | Public Address                                 |
|--------------------|--|
| B & B Electric Inc | 704 23 2/10 Rd<br>Grand Junction, CO 815050000 |

**Credential Information**

| License Number | License Method | License Type          | License Status | Original Issue Date | Effective Date | Expiration Date |
|----------------|----------------|-----------------------|----------------|---------------------|----------------|-----------------|
| EC.0000350     | Original       | Electrical Contractor | Active         | 07/13/1985          | 10/01/2011     | 09/30/2014      |

**Supervision**

| Relationship  | Supervisor/Supervisee | License     | Start Date | Relationship Type      |
|---------------|-----------------------|-------------|------------|------------------------|
| Supervised By | Terry G Fleming       | ME.0001937  | 09/29/1988 | Responsible Individual |
| Supervises    | Casey R Fleming       | APE.0982447 | 12/01/1998 | Employer               |
| Supervises    | Sean Hicks            | APE.0950620 | 05/15/2010 | Employer               |

**Board/Program Actions**

| Discipline   |
|--|
| There is no Discipline or Board Actions on file for this credential. |

Generated on: 8/8/2013 12:23:39 PM

RECEIVED

AUG 22 2013

ELECTRICAL  
DIVISION

# Colorado Department of Labor Electrician Licensing Requirements

Taken from: <http://cdn.colorado.gov/cs/Satellite/DORA-Reg/CBON/DORA/1251633446704>

## New Examination Vendor

On Friday, January 25, 2013, the Board transitioned to a new testing agency, PSI. This office has transferred currently approved exam candidate files to PSI.

We do not foresee any transition difficulties or examination delays, however, if you are unable to schedule an examination with PSI, contact the Office of Licensing at 303-894-7800.

### <sup>+</sup> Licensing By Examination

- Submit a completed Colorado State Electrical Board Application for Original License by Examination.
- Submit the application processing fee (non-refundable).
- Provide the Affidavit of Experience Forms of electrical experience obtained.

### RESIDENTIAL WIREMAN

Applicants for a Colorado residential wireman's license are required to verify four thousand hours earned in no less than two years of electrical construction wiring experience, for lights, heat, and power.



### JOURNEYMAN ELECTRICIAN

Applicants for a Colorado journeyman electrician's license are required to verify eight thousand hours earned in no less than four years of electrical construction wiring experience, for lights, heat, and power; with a minimum of four thousand hours earned in no less than two years of that time being commercial and/or industrial work. Verification of experience must state the hours and months of the time spent performing residential and commercial/industrial wiring.

### MASTER ELECTRICIAN

Applicants for a Colorado master electrician's license are required to verify at least two thousand hours earned in no less than one year of planning, laying-out, and supervising the installation of wiring, apparatus, and equipment for electrical light, heat, and power in addition to the experience requirements for the journeyman's license.

### VERIFICATION OF EXPERIENCE FORM

The application must verify electrical experience by submitting Affidavit of Experience Forms from current and former employers (electrical contractors).

### Exam Information

The electrical licensing examination is administered in English only through a private testing agency, PSI. Once the application has been approved by the State Electrical Board, a letter of acceptance and information on how to contact PSI to obtain a candidate handbook will be provided. The handbook will provide information on who to contact, how to schedule for the written examination, the testing locations, the required fee, and other important information.

The examination is in a multiple-choice format. Questions are based on the currently adopted National Electrical Code. A few of the categories covered in the exam are: grounding and bonding, wiring methods and theory and calculations. Your pass or fail results will be provided at the testing site.

RECEIVED

AUG 22 2013

ELECTRICAL  
DIVISION

**NOTE: Positive photo identification must be presented at the time of admission to the electrical examination.**

**Temporary Work Permit**

If a temporary work permit is required, a request should be made at the time the original application is submitted. Only one 30-day temporary work permit can be issued. If the temporary work permit expires and the applicant has failed to qualify for licensure, the applicant shall discontinue working as a master, journeyman, or residential wireman in Colorado. If the applicant is not currently licensed as an electrician in another category, the applicant must register as an apprentice and work with supervision.

**FYI: Electrical Contractors can manage their electrical apprentice registration needs online by using [Online Services](#).**

Please be advised that in accordance with the Colorado Electrical Law, any individual employed in the electrical trade is considered an apprentice and must be registered until such time as the individual has actually obtained a Colorado electrician's license.

The electrical contractor is responsible for compliance with the law regarding licensing and registration of their employees.

The application processing fee must accompany your application. Fees are non-refundable and are subject to change every year on July 1.

RECEIVED

AUG 22 2013

ELECTRICAL  
DIVISION



Michigan Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes/Electrical Division  
P.O. Box 30255, Lansing, MI. 48909

August 8<sup>th</sup>, 2013

To Whom It May Concern,

My name is Garth Ryan and I am a journeyman electrician licensed in the state of Colorado where I completed an IBEW apprenticeship in the IBEW Local 68. After working as an electrician in Colorado for 7 years and the birth of my daughter, my wife and I have decided to move to Michigan to return to our birth places and to raise our daughter closer to families. I would like to continue working as an electrician in the state of Michigan and feel it is important to earn a Michigan journeyman's electrical license as soon as possible. Please consider my application for the Michigan Journeyman Electrician Examination. Feel free to contact me with any questions.

Sincerely,

Garth Ryan



RECEIVED

AUG 22 2013

ELECTRICAL  
DIVISION

**Apprentice Data for: GARTH RYAN**

- Personal Data
- Committee
- Memo
- Classes
- Absence/Makeup
- Grades
- Or 12
- Eval Sum
- Eval Detail
- Wk Hrs Sum
- Wk Hrs Detail
- Work History
- Pay History
- Penalties
- Inst Eval Sum
- Inst Eval D
- Picture ID

| Contractor ID | Rate | Hired    | Terminated | Reason for Leaving |
|---------------|------|----------|------------|--------------------|
| B&B           |      | 09/12/07 | 03/13/08   | RIF,               |
| STURGEON      |      | 06/02/08 | 08/26/10   | RIF,               |
| STURGEON      |      | 10/22/10 | 12/09/11   | RIF,               |
| GUARANTEE     |      | 01/05/12 | 03/02/12   | RIF,               |
| SMITTICK      |      | 03/29/12 | 06/14/12   | RIF,               |
| GARD          |      | 06/18/12 | 08/31/12   | RIF,               |
| MASS          |      | 09/25/12 | 12/01/12   | COMPLETED PROGRAM  |
|               |      |          |            |                    |
|               |      |          |            |                    |
|               |      |          |            |                    |
|               |      |          |            |                    |



The Trustees  
of



*The National Joint Apprenticeship and Training Committee*

for the  
INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS.

and the  
NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION

upon the Recommendation of the  
Denver Jt. Electrical

JOINT APPRENTICESHIP AND TRAINING COMMITTEE

do hereby present this diploma to

**Garth Ryan**

*In recognition of satisfactory completion of their indenture, as indicated by acquiring the minimum number of on-the-job hours, related studies and/or classroom training; thereby accomplishing a degree of knowledge and skill level which is mastered only by those who attain the goals and standards set forth by this Industry. The above-named graduate is therefore worthy and deserving of the Internationally Recognized classification of*

**Journeyman Wireman**

*which is herewith conferred as acknowledged by the signatures of the Trustees  
on this first of December in the year 2012.*

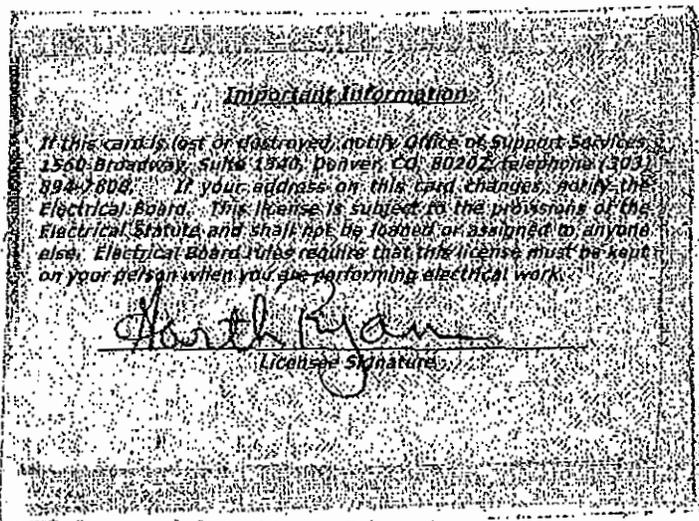
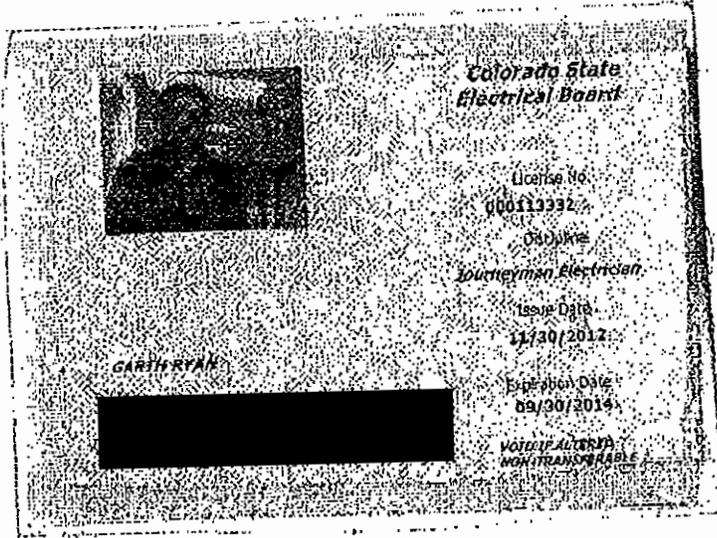
*Erin D. Hill*  
President, IBEW

*John M. Lyon*  
Executive Vice President & CEO, NECA



*Tim Thomas*  
JATC Chairman

*George A. Nightgale*  
JATC Secretary



RECEIVED

SEP 27 2013

ELECTRICAL  
DIVISION

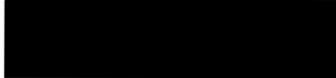


RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

Date Mailed from BCC: 10-29-2013

Garth L. Ryan  


Document E-13-66  
Exam Applicant Review

**NOTICE OF MICHIGAN ADMINISTRATIVE ELECTRICAL BOARD MEETING**

You are hereby notified that in accordance with the Administrative Procedures Act, 1969 PA 306, MCL 24.201 *et seq.*, and the Electrical Administrative Act being 1956 PA 217 MCL 338.881 *et seq.*, you are scheduled to appear before the Michigan Electrical Administrative Board on:

Date: November 7, 2013  
Time: 9:30 a.m.  
Location: Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes  
2501 Woodlake Circle, Conference Room 3  
Okemos, MI 48864

This notice is to provide you the opportunity to provide testimony to the board regarding your experience and eligibility to sit for the journeyman electrician exam. If you wish to offer any document(s) into evidence, you must file the documentation with the Electrical Division prior to the meeting or bring fifteen (15) copies of the information you wish to enter for the board's consideration. In the event you are unable to attend the meeting or you choose not to appear before the board, please contact the Electrical Division in advance of the meeting. In the event that you fail to appear at the meeting as scheduled, a decision may be entered in your absence.

Accompanying this notice is a report outlining our findings and recommendation based upon the Electrical Administrative Act being 1956 PA 217 MCL and the documentation you have provided at the time of mailing. Any questions regarding this matter may be directed to the Electrical Division at (517) 241-9320.

  
Dan O'Donnell, Chief, Electrical Division

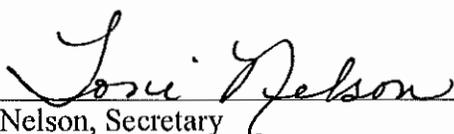
10/29/2013  
Date

*Providing for Michigan's Safety in the Built Environment*

Exam Applicant Review  
Garth L. Ryan  
Document No. E-13-66  
November 7, 2013  
Page 2 of 4

**PROOF OF SERVICE**

I hereby state, to the best of my knowledge, information, and belief, that a copy of the foregoing document was served on this date upon all parties and/or attorneys of record in this matter by email to those parties employed by the State of Michigan and by first class mail to the remaining parties at their respective addresses as disclosed below.

  
\_\_\_\_\_  
Toni Nelson, Secretary  
Electrical Division  
Bureau of Construction Codes

\_\_\_\_\_  
10-29-2013  
Date

Garth L. Ryan



BCC Administration



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

November 7, 2013

E-13-67

TO: Members of the State Electrical Administrative Board

FROM: Dan O'Donnell, Chief, Electrical Division

SUBJECT: Journeyman electrician examination application

**APPLICANT REPRESENTATIVE:**

Michael A. Rotz

**PROJECT:**

N/A

**AUTHORITY:**

The Michigan Electrical Administrative Act, 1956 PA 217 of the Michigan Compiled Laws.

The Electrical Administrative Board General Rules

**REQUEST:**

Request to petition the Electrical Administrative Board to sit for the journeyman electrician examination.

**APPLICABLE RULE:**

1956 PA 217, MCL 338.883a Sec. 3a. (c), MCL 338.883d Sec. 3d. (1), (a), (b), (c), (d), Administrative Board General Rules R338.1005a Rule 5a. (1), (2), (3), R338.1006a Rule 6a (1), (3), (4).

**FINDINGS:**

Mr. Rotz submitted an application to sit for the journeyman electrician examination. The documentation that Mr. Rotz submitted indicates that he attained 8723 hours of

*Providing for Michigan's Safety in the Built Environment*

electrical experience working under the supervision of licensed master electricians in the State of Maryland between July 1995 and July 1999. Mr. Rotz documentation also indicates that between June 2008 through the present he has attained an additional 5164 hours of experience under the employment of RJ Martin National Contracting performing electrical and data installations. RJ Martin is a licensed electrical contractor in the State of Michigan as well as several other states.

**RECOMMENDATION:**

In accordance with the acts and rules listed above staff concludes that Mr. Rotz meets the requirements to sit for the State of Michigan journeyman electrician examination and recommends that the board approve his application.

**Application for Journeyman Electrician Examination**  
 Michigan Department of Licensing and Regulatory Affairs  
 Bureau of Construction Codes / Electrical Division  
 P.O. Box 30255, Lansing, MI 48909  
 517-241-9320  
 www.michigan.gov/bcc

Agency Use Only

|         |
|---------|
| 6334071 |
|---------|

**Examination Fee: \$100.00 (nonrefundable)**

|   |  |
|---|--|
| Authority: 1956 PA 217<br>Completion: Mandatory<br>Penalty: Examination will not be given | LARA is an equal opportunity employer/program. Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. |
|---|--|

**Instructions:** To be eligible to make application for and take this examination an applicant shall meet the following criteria:

- Complete and sign application. Type or print in ink.
- Application and fee must be received 20 business days prior to the examination date.
- Applicant must not be less than 20 years of age.
- Provide **original notarized** documentation from present or former employers to the effect that the applicant has not less than 8,000 hours of practical experience obtained over a period of not less than 4 years related to electrical construction or electrical maintenance of buildings under direct supervision of a person licensed pursuant to the act. Documentation must include the beginning (month, day, year) to ending (month, day, year) dates of employment. The 8,000 hours of practical work experience over 4 years must be attained prior to the deadline date for submitting documentation. **Notarized**, original documentation must be on employers' letterhead stationery and provide dates of employment and hours worked under licensed supervision and signed by the qualified master electrician.
- Enclose a check made payable to the **State of Michigan**.
- Mail completed application, required documents, and payment to the address listed above.

**Information**

Applicants are permitted one examination for the \$100.00 fee. Upon achieving a minimum passing score of 75% or higher, the applicant will be billed \$40.00 for the journeyman electrician license prior to issuance of the license. Failure of examination 2 times within 2 years requires 1 year waiting period from the date of the second failure and proof of successful completion of a course on code, electrical fundamentals or theory to be eligible for reexamination. Examination fee is forfeited upon failure to appear for scheduled examination unless written explanation is received within 10 business days of the examination.

**Examination Eligibility of Applicants From Other States or Countries**

A person who is licensed as a journeyman electrician in another state or country may qualify for examination upon determination by the board that the license was obtained by the person through substantially the same or equal requirements as those of the state of Michigan in accordance with the provisions of section 3a of the act.

**Applicant Information**

|  |                     |                             |   |
|--|---------------------|-----------------------------|---|
| NAME (Last Name, First Name, Middle Initial)<br><i>Rofz Michael A.</i> |                     | DATE OF BIRTH<br>[REDACTED] | LAST 4 DIGITS OF SOCIAL SECURITY NUMBER*<br>XXX-XX-[REDACTED] |
| ADDRESS<br>[REDACTED]  | CITY<br>[REDACTED]  | TOWNSHIP<br>[REDACTED]      |   |
| COUNTY<br><i>101</i>   | STATE<br>[REDACTED] | ZIP CODE<br>[REDACTED]      | TELEPHONE NUMBER (Include Area Code)<br>[REDACTED]            |

Have you previously taken this examination?  Yes  No

If examination was not administered by the State Electrical Division provide the licensing entity:  
 City of \_\_\_\_\_ Township of \_\_\_\_\_

**Examination Site**

Examinations are given at the sites listed below. Refer to the enclosed "Schedule of Electrical Board Meetings and Licensing Examinations" for examination dates. Please check below the site you wish to be examined at and indicate a preference of examination month. If approved for examination, an admission card will be mailed to you approximately 10 days prior to the examination date. If the examination you have selected is full, you will be scheduled for the next available examination at your preferred site.

|   |                        |
|---|------------------------|
| <u>Preferred Site</u>                       | <u>Preferred Month</u> |
| <input checked="" type="checkbox"/> Lansing | <i>NOV</i>             |
| <input type="checkbox"/> Escanaba           | _____                  |

If you have a disability and require an accommodation to take the examination, please submit written documentation from a professional (education professional, doctor, psychologist, psychiatrist) to certify that your disabling condition requires the requested test accommodation. Forms are available from this office.

RECEIVED  
SEP 18 2013  
ELECTRICAL DIVISION

\*This information is confidential. Disclosure of confidential information is protected by the Federal Privacy Act.

**Experience Record** (attach additional sheets if necessary)

|   |                              |  |                          |
|---|------------------------------|--|--------------------------|
| NAME OF CURRENT EMPLOYER<br><i>R. J. Martin National Contracting</i>  |                              | DATES OF EMPLOYMENT (MM/DD/YY)<br>BEGINNING: <i>JUNE 2008</i> ENDING: <i>Present</i> |                          |
| ADDRESS<br><i>7261 Peppercorn Parkway</i>   | CITY<br><i>N. Charleston</i> | STATE<br><i>SC</i>   | ZIP CODE<br><i>29418</i> |
| TYPE OF WORK PERFORMED<br><i>Electrical and Low Voltage wiring on Retail stores across the states.</i>                        |                              |  |                          |
| NAME OF EMPLOYER<br><i>Huhtamaki Plastics</i>   |                              | DATES OF EMPLOYMENT (MM/DD/YY)<br>BEGINNING: <i>July 99</i> ENDING: <i>JAN 07</i>    |                          |
| ADDRESS<br><i>5700 W. Shaffer Rd</i>  | CITY<br><i>Coleman</i>       | STATE<br><i>MI</i>   | ZIP CODE<br><i>48618</i> |
| TYPE OF WORK PERFORMED<br><i>PERFORMS MAINTENANCE, TROUBLESHOOTING &amp; REPAIR OF ALL ELECTRICAL SYSTEMS &amp; MACHINES.</i> |                              |  |                          |

**Certification and Signature of Applicant**

I certify the information provided is true and accurate to the best of my ability and I have the experience required for this examination. I further understand fraud or deceit in obtaining a license is grounds for administrative action in accordance with the act.

|  |                             |
|--|-----------------------------|
| APPLICANT'S SIGNATURE<br> | DATE<br><i>09 SEPT 2013</i> |
|--|-----------------------------|

**Agency Use Only**

Approved for Exam  Yes  No

Validation Area

| Date of Exam | Score | Absent | Date of Exam | Score | Absent |
|--------------|-------|--------|--------------|-------|--------|
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |

Tran Info: 103 18935677-1 09/16/13  
 Chk#: 3188 Amt: \$100.00  
 ID: DIANA D ROTZ

Date Approved by EAB \_\_\_\_\_

RECEIVED

SEP 18 2013

ELECTRICAL  
DIVISION

Electrical Board,

I have included past hours, and copies of both Journeyman's cards for Texas and Oklahoma.

Paperwork showing how the licences were filed for and the course info for taking the test's, plus the update certificate to show I am renewing the Texas card. The info for the Texas card, was the exact info used for the Oklahoma testing.

Thank You

Michael A Rotz

RECEIVED  
SEP 18 2013  
ELECTRICAL  
DIVISION

Click Here to return to the Table of Contents  
& complete our course survey.



**ELITE CONTINUING  
EDUCATION**

# Certificate of Completion

***This Certifies That***

**Michael Rotz License Number: 238431**

Has successfully completed Course # 8646 which consists of:

2011 NEC Electrical Update, Texas Laws and Rules and NFPA Safety ~ 4 Hours

TDLR Provider #1201

2013-01-24  
*Completion Date*

*Annette Nowell*  
President

**1452 North US Highway 1 ~ Suite 100 ~ Ormond Beach ~ Florida ~ 32174**  
**office@elitecme.com**

**STATE OF TEXAS**  
MICHAEL A ROTZ

JOURNEYMAN ELECTRICIAN



LICENSE NUMBER 238431  
EXPIRES 03/24/2013

**TEXAS DEPARTMENT OF LICENSING AND REGULATION**

EXPIRES 2013/11/30 137948  
MICHAEL A ROTZ 137948  
UNLIMITED ELECTRICAL  
JOURNEYMAN

RECEIVED

SEP 18 2013

ELECTRICAL  
DIVISION

RECEIVED  
SEP 18 2013  
ELECTRICAL  
DIVISION

EXPIRES 2013/11/30 137948  
MICHAEL A ROTZ  
UNLIMITED ELECTRICAL 137948  
JOURNEYMAN



**STATE OF TEXAS**  
MICHAEL A ROTZ

JOURNEYMAN ELECTRICIAN



LICENSE NUMBER 238431  
EXPIRES 03/24/2014



**TEXAS DEPARTMENT OF LICENSING AND REGULATION**

## LICENSE REQUIREMENTS

To qualify for a Journeyman Electrician License, you must meet either A, or B below:

A.

- Pass the Texas Journeyman Electrician Exam,
- completed at least 8,000 hours of on-the-job training under the supervision of a master electrician.

Completed application will also include the Experience Verification Form (or letters from previous supervisors) and the Employment History portion of the application.

The above requirements (excluding the exam) must be complete prior to taking your examination.

OR

B.

- Held a Journeyman Electrical License issued by a Texas municipality or region that has elected to discontinue issuing or renewing licenses. (Held the municipal or regional license for the preceding year; and submit this application under this chapter within 90 days of the date the municipality or region stops issuing or renewing licenses.)

The Discontinued Municipal or Regional Licensing Program Form must be completed and attached to this application.

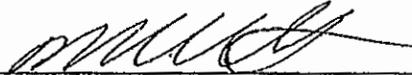
## STATEMENT OF APPLICANT

I certify that I have read and will comply with all applicable provisions of the Electrician Act; Texas Occupation Code, Chapter 1305 and Chapter 51; Tex. Admin. Code, Chapter 60; and the Electricians Administrative Rules, Tex. Admin. Code, Chapter 73.

I understand that providing false information on this application may result in denial of this application and/or revocation of the license I am requesting and the imposition of administrative penalties.

1 FEB 2011

Date Signed



Signature of Applicant

RECEIVED  
SEP 18 2013  
ELECTRICAL  
DIVISION

## ELECTRICIAN EXPERIENCE VERIFICATION FORM

THIS FORM MUST BE COMPLETED BY A PERSON QUALIFIED TO VERIFY ELECTRICIAN EXPERIENCE.

Name of Applicant Michael A. Rotz

Master Electrician's Name Johnny L. Rilling Phone Number [REDACTED]

Company Name RJ Martin National Contracting

List the license type that you currently hold or have previously held: \_\_\_\_\_ List the state, county, or municipality that issued this license: \_\_\_\_\_

Multiple- See Attached  
(Copy or verification of license is required.)

License Number: Multiple- See Attached Effective Date: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

Did you supervise the electrical work of the applicant during the period you are verifying? Yes  No

Did the applicant hold a valid license during the period you are verifying? Yes  No

If yes, what type of license?

Amount of on the job training completed by applicant: Years 2 Months 8

DESCRIBE THE ELECTRICAL WORK PERFORMED:  
commercial turnkey electrical installation and data comm

BY SIGNING THIS FORM, I CERTIFY THAT THE INFORMATION ON THIS FORM IS TRUE AND CORRECT.

[Signature]  
Master's Signature

1-26-11  
Date

RECEIVED  
SEP 18 2013  
ELECTRICAL  
DIVISION

Applicant's Name: Michael A. Rotz Social Security # ██████-██-████

### EMPLOYMENT HISTORY

Indicate below your employment history for each employer. You can make additional copies of this form and attach them if needed.

For each employment period, you must provide either a letter from the Master Electrician who supervised your on-the-job training, or a completed Experience Verification Form.

Note: To avoid delay in processing your application, the following sections AND the attached documentation must be completed.

|   |  |
|---|--|
| Employer:<br>RJ Martin National Contracting                               | Employer's<br>Telephone No. ( 843 ) 207-9620 |
| Address: 7261 Peppermill Parkway  | City, State, Zip North Charleston SC 29418   |
| Master's License/Cert. #:<br>Issuing Jurisdiction: Multiple- See Attached | Master's Name:<br>Johnny L. Rilling          |
| Starting Date: 10-27-2009 Leaving Date: Present                           | Total Years or Hours of Experience: 2281 hrs |

Describe job duties performed:

commercial/retail turnkey electrical installation and data comm installation

|   |  |
|---|--|
| Employer:<br>RJ Martin Electrical Contracting                             | Employer's<br>Telephone No. ( 216 ) 662-7100 |
| Address: 22841 Aurora Rd.   | City, State, Zip Bedford Hts. OH 44146       |
| Master's License/Cert. #:<br>Issuing Jurisdiction: Multiple- See Attached | Master's Name:<br>Johnny L. Rilling          |
| Starting Date: 06-13-2008 Leaving Date: 10-27-2009                        | Total Years or Hours of Experience: 2883 hrs |

Describe job duties performed:

commercial/retail turnkey electrical installation and data comm installation

RECEIVED

SEP 18 2013

ELECTRICAL  
DIVISION

| STATE         | TYPE         | NUMBER         | EXPERATION |
|---------------|--------------|----------------|------------|
| Alabama       | Contractors  | 1990           | 9/30/2011  |
| Arkansas      | Masters      | M-8295         | 2/28/2011  |
| Arkansas      | Contractors  | 214700511      | 5/31/2011  |
| Arizona       | Contractors  | 266537         | 8/31/2012  |
| Florida       | Contractors  | EC13002122     | 8/31/2012  |
| Georgia       | Contractors  | EN213355       | 6/30/2012  |
| Kentucky      | Contractors  | CE52818        | 3/31/2011  |
| Kentucky      | Masters      | ME12771        | 3/31/2011  |
| Maryland      | Masters      | 10671          | 1/17/2012  |
| Michigan      | Contractors  | 6111016        | 12/31/2012 |
| Michigan      | Masters      | 6213636        | 12/31/2011 |
| New Jersey    | Contractors  | 34EB01578100   | 3/31/2012  |
| N. Carolina   | Contractors  | 25036-U        | 12/17/2011 |
| Ohio          | Contractors  | 21598          | 6/30/2011  |
| Oklahoma      | Contractors  | 117491         | 3/31/2011  |
| S. Carolina   | Contractors  | M111367        | 10/31/2011 |
| Tennessee     | Contractors  | 63841          | 7/31/2012  |
| Texas         | Contractors  | 21301          | 1/18/2012  |
| Texas         | Masters      | 79800          | 11/17/2011 |
| Virginia      | Cont Class A | 2705 136594A   | 11/30/2012 |
| Virginia      | Masters      | 2710041259     | 11/30/2012 |
| West Virginia | Contractors  | WV046908       | 6/15/2011  |
| West Virginia | Masters      | M56645REOH1007 | 6/30/2011  |

RECEIVED

SEP 18 2013

ELECTRICAL  
DIVISION

Applicant's Name: Michael A. Rotz Social Security # [REDACTED]

### EMPLOYMENT HISTORY

Indicate below your employment history for each employer. You can make additional copies of this form and attach them if needed.

For each employment period, you must provide either a letter from the Master Electrician who supervised your on-the-job training, or a completed Experience Verification Form.

Note: To avoid delay in processing your application, the following sections AND the attached documentation must be completed.

|  |  |
|--|--|
| Employer:<br><u>Brandenburg Electric Inc</u>               | Employer's<br>Telephone No. ( <u>301</u> ) <u>662-0144</u> |
| Address: <u>700 East Street</u>                            | City, State, Zip <u>Frederick MD 21701</u>                 |
| Master's License/Cert. #: <u>1938</u>                      | Master's Name:<br><u>Richard Pastor</u>                    |
| Issuing Jurisdiction: <u>state of MD</u>                   |  |
| Starting Date: <u>7/17/95</u> Leaving Date: <u>5/26/98</u> | Total Years or Hours of Experience: <u>5818 hr</u>         |

Describe job duties performed:

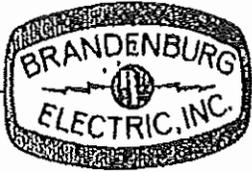
Electrical installations

|   |  |
|---|--|
| Employer:<br><u>Offray &amp; Son, Inc.</u>                | Employer's<br>Telephone No. ( <u>301</u> ) <u>739-6314</u> |
| Address: <u>857 Willow Circle</u>                         | City, State, Zip <u>Hagerstown MD 21740</u>                |
| Master's License/Cert. #: <u>EL-M-0505</u>                | Master's Name:<br><u>Michael J Cermak</u>                  |
| Issuing Jurisdiction: <u>Washington County MD</u>         |  |
| Starting Date: <u>5/27/98</u> Leaving Date: <u>7/7/99</u> | Total Years or Hours of Experience: <u>2905 hr</u>         |

Describe job duties performed:

Electrical Maintenance

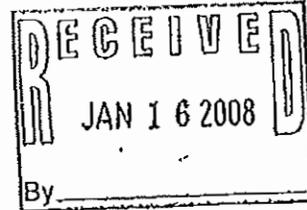
RECEIVED  
SEP 18 2013  
ELECTRICAL  
DIVISION



Electrical Contractors

700 EAST STREET • FREDERICK, MARYLAND 21701 • TELEPHONE 662-0144

July 14, 1999



Rush Parker Co.  
109 East Adam Street  
Coleman, MI 48618.

To whom it may concern,

This is to inform you that Michael Rotz was employed here as a Electrician from July 17, 1995 to May 26, 1998. His hours are as follow:

|      | REG.    | O.T.  | TOTAL |
|------|---------|-------|-------|
| 1995 | 855 1/2 | 48    | 903   |
| 1996 | 1761    | 155   | 1916  |
| 1997 | 1893    | 263   | 2156  |
| 1998 | 843     | -     | 843   |
|      |         |       | ----- |
|      |         | Total | 5818  |

If you need any other information please contact me.

Sincerely,

*[Signature]*  
Richard J. Pastor  
State of MD Master  
License # 1938

Subscribed and sworn to before me in my presence,  
this 14 day of July, 1999, a Notary Public  
in and for the State of Maryland  
*[Signature]*  
Notary Public

My commission expires MARCH 3, 2003

*34*  
*MOS 5670*  
RECEIVED  
SEP 18 2013  
ELECTRICAL  
DIVISION

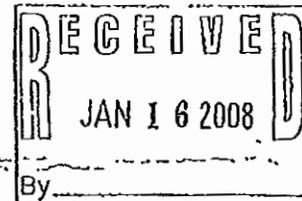
# Offray

July 15, 1999

To Whom It May Concern:

Michael Rotz was employed by C.M. Offray & Son, Inc. from May 27, 1998 until July 7, 1999. Mr. Rotz was an Electrician III in our Maintenance Department while he was working. Below is a breakdown of the hours Mr. Rotz worked for us while he was employed.

|          | <u>1998</u> | <u>1999</u> |
|----------|-------------|-------------|
| Regular  | 1,880.10    | 1,024.0     |
| Overtime | 0.00        | 0.6         |
| Total    | 1,880.10    | 1,024.6     |



If any other information is needed, please contact me at (301) 739-6314 ext. 6153.

*Melissa L. Igou*  
Melissa L. Igou  
Payroll Supervisor

RECEIVED

SEP 18 2013

ELECTRICAL  
DIVISION

*Susan A. Morgan*  
Commission expires 1-1-02  
7-15-99

C.M. OFFRAY & SON, INC.

857 WILLOW CIRCLE, HAGERSTOWN, MD 21740 Phone 301-739-6314 Fax 301-790-6618

## ***DLLR's Division of Occupational and Professional Licensing***

### **License Requirements - Maryland Board of Master Electricians**

All applicants for a master electricians license must be regularly engaged in or employed to provide electrical services for all categories of electrical equipment for at least seven years, while under the direction and supervision of a master electrician.

#### ***[Return to the Division of Occupational and Professional Licensing home page \(.\)](#)***

Questions or comments regarding the Board of Master Electricians may be directed to [electric@dflr.state.md.us](mailto:electric@dflr.state.md.us) (<mailto:electric@dflr.state.md.us>).

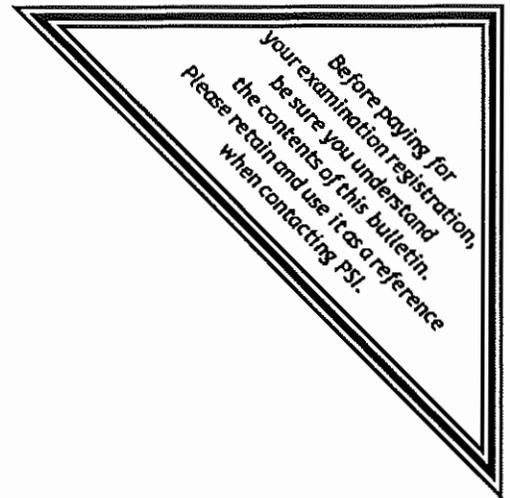
Questions or comments regarding the Division of Occupational and Professional Licensing may be directed to [op@dflr.state.md.us](mailto:op@dflr.state.md.us) (<mailto:op@dflr.state.md.us>).

Questions or comments regarding the DLLR website may be directed to [webmaster@dflr.state.md.us](mailto:webmaster@dflr.state.md.us) (<mailto:webmaster@dflr.state.md.us>).

Updated December 8, 2009



PSI licensure:certification  
 3210 E Tropicana  
 Las Vegas, NV 89121  
 www.psiexams.com  
 1-800-733-9267



**MARYLAND**  
**DEPARTMENT OF LABOR, LICENSING, AND REGULATION**  
**STATE BOARD OF MASTER ELECTRICIANS**

**MASTER ELECTRICIAN**  
**QUALIFICATION INFORMATION AND EXAMINATION APPLICATIONS**

| <u>Topic</u>  | <u>Page</u> | <u>Topic</u>  | <u>Page</u> |
|---|-------------|---|-------------|
| Introduction .....  | 1           | Reporting for the Examination .....                 | 6           |
| State of Maryland Board of Master Electricians .....      | 1           | Testing Center Locations .....                      | 6           |
| PSI licensure:certification .....                         | 1           | Required Identification .....                       | 7           |
| The Master Electrician Examination.....                   | 1           | Security Procedures .....                           | 7           |
| Using the Bulletin .....                                  | 1           | Taking the Examination .....                        | 7           |
| Examination Registration .....                            | 1           | Score Reporting .....                               | 8           |
| Material Review at PSI.....                               | 1           | Examination Review .....                            | 8           |
| Requirements for the Master Electrician Examination.....  | 2           | Duplicate Score Reports .....                       | 8           |
| Waiver of Examination Requirements for                    |             | Applying for a License .....                        | 8           |
| Applicants Holding a Local Master’s License .....         | 2           | License Application Instructions.....               | 8           |
| Waiver of Examination Requirements for                    |             | Conviction History Information .....                | 8           |
| Out-of-State Applicants .....                             | 2           | Instructions and Forms .....                        | 8           |
| Preparing for the Examination .....                       | 3           | Certification Forms .....                           | 8           |
| Tips for Exam Preparation .....                           | 3           | Exam Registration Forms .....                       | 9           |
| Examination Content Outline .....                         | 3           | Checklist for Your Application .....                | 9           |
| Sample Questions .....                                    | 4           | Maryland Master Electrician Certification Form..... | 11          |
| Fees.....   | 4           | Maryland Master Electrician Examination             |             |
| Social Security Number Confidentiality.....               | 4           | Registration Form.....                              | 12          |
| Scheduling Procedures.....                                | 4           | Special Accommodation Form.....                     | 15          |
| Confirmation Notice .....                                 | 4           |   |             |
| 90-Day Registration Period .....                          | 5           |   |             |
| Scheduling an Appointment .....                           | 5           |   |             |
| Canceling or Rescheduling an Appointment.....             | 5           |   |             |
| Missed Appointment or Late Cancellation.....              | 5           |   |             |
| Special Testing Arrangements.....                         | 5           |   |             |
| Emergency Test Center Closing.....                        | 5           |   |             |
| Re-registering of an Eligible Candidate for an Exam ..... | 5           |   |             |
| Express Re-registration.....                              | 6           |   |             |

## Questions and Inquiries

### For PSI

All questions and requests for information about your application packet for the examinations should be directed to:

PSI licensure:certification  
3210 E Tropicana  
Las Vegas, NV 89121  
www.psiexams.com  
(800) 733-9267 • FAX (702) 932-2666  
TDD (800) 735-2929

### For the State Board of Master Electricians

Waivers, reciprocity, and reinstatement require review/approval by the State Board of Master Electricians. Questions about these and all questions concerning applications for licensure after you have passed the examination should be directed to the:

State of Maryland, Board of Master Electricians  
500 N. Calvert St., Room 302  
Baltimore, MD 21202-3651  
(410) 230-6163 • FAX (410)333-6314  
TTY: MD Relay Service (800) 735-2258

## REQUIREMENTS FOR THE MASTER ELECTRICIAN EXAMINATION

1. The applicant must have engaged or employed regularly and principally in providing electrical services for all types of electrical equipment and apparatus for at least 7 years while under the direction and supervision of:
  - (a) a master electrician, or
  - (b) a similar qualified employee of a governmental unit.
2. The State Board may allow an applicant up to 3 years of credit toward the experience required with proof that the applicant has completed a formal course of study or professional training in electrical installation comparable to the required experience. (Allow an additional 2 months for this review.)
3. An ORIGINAL form of certification of experience and evidence of any formal course of study must be furnished by the applicant with the registration for examination.

### Waiver of Examination Requirements for Applicants Holding a Local Master's License

1. A waiver of the examination may be granted for an individual who holds a local license if the applicant:
  - (a) Pays the application fee required, and
  - (b) Provides evidence that the applicant:
    - (i) meets the qualifications specified above, and
    - (ii) became licensed in a local jurisdiction after:

1. passing, in that local jurisdiction, an examination that is equivalent to the State examination, and
  2. meeting, in that local jurisdiction, requirements that are equivalent to the licensing requirements for State examination applicants.
2. Applicants requesting a waiver must obtain and complete an application and submit it with the following directly to the State Board of Master Electricians:
    - (a) a statement from the local jurisdiction certifying that the applicant is in good standing with the local jurisdiction,
    - (b) a statement that the applicant obtained the local license by taking an exam equivalent to the exam by the State, and
    - (c) the date of the local examination.

### Waiver of Examination Requirements for Out-Of-State Applicants

1. The exam may be waived for an individual who is licensed to provide electrical services as a master electrician in another state if the applicant:
  - (a) pays the appropriate application fee, and
  - (b) provides evidence that the applicant:
    - (i) meets the qualifications,
    - (ii) holds an active license in good standing in that state,
    - (iii) holds a license that is equivalent to the Maryland State license, and
    - (iv) became licensed in another state after meeting, in that state, requirements that are at least equivalent to the license requirements for Maryland State examinations applicants INCLUDING 7 years of work experience equivalent to the experience required for Maryland Master Electricians.

**NOTE:** The Board may grant a waiver only if the state in which the applicant is licensed waives the exam of licensees of this state to a similar extent as Maryland waives the exam requirements for individuals licensed in that state.

Maryland currently has reciprocal agreements with Delaware and Virginia. In order to obtain a Maryland license through reciprocity, the licensee must have taken the licensure exam in either Delaware or Virginia. In addition, for Delaware licensees only, the person seeking reciprocity must have held the license for at least 5 years



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

Date Mailed from BCC: 10-29-2013

Michael A. Rotz  


Document E-13-67  
Exam Applicant Review

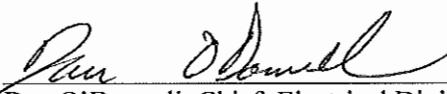
**NOTICE OF MICHIGAN ADMINISTRATIVE ELECTRICAL BOARD MEETING**

You are hereby notified that in accordance with the Administrative Procedures Act, 1969 PA 306, MCL 24.201 *et seq.*, and the Electrical Administrative Act being 1956 PA 217 MCL 338.881 *et seq.*, you are scheduled to appear before the Michigan Electrical Administrative Board on:

Date: November 7, 2013  
Time: 9:30 a.m.  
Location: Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes  
2501 Woodlake Circle, Conference Room 3  
Okemos, MI 48864

This notice is to provide you the opportunity to provide testimony to the board regarding your experience and eligibility to sit for the journeyman electrician exam. If you wish to offer any document(s) into evidence, you must file the documentation with the Electrical Division prior to the meeting or bring fifteen (15) copies of the information you wish to enter for the board's consideration. In the event you are unable to attend the meeting or you choose not to appear before the board, please contact the Electrical Division in advance of the meeting. In the event that you fail to appear at the meeting as scheduled, a decision may be entered in your absence.

Accompanying this notice is a report outlining our findings and recommendation based upon the Electrical Administrative Act being 1956 PA 217 MCL and the documentation you have provided at the time of mailing. Any questions regarding this matter may be directed to the Electrical Division at (517) 241-9320.

  
Dan O'Donnell, Chief, Electrical Division

10/29/2013  
Date

*Providing for Michigan's Safety in the Built Environment*

Exam Applicant Review  
Michael A. Rotz  
Document No. E-13-67  
November 7, 2013  
Page 2 of 4

**PROOF OF SERVICE**

I hereby state, to the best of my knowledge, information, and belief, that a copy of the foregoing document was served on this date upon all parties and/or attorneys of record in this matter by email to those parties employed by the State of Michigan and by first class mail to the remaining parties at their respective addresses as disclosed below.

*Toni Nelson*

\_\_\_\_\_  
Toni Nelson, Secretary  
Electrical Division  
Bureau of Construction Codes

*10-29-2013*

\_\_\_\_\_  
Date

Michael A. Rotz



BCC Administration



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

November 7, 2013

E-13-68

TO: Members of the State Electrical Administrative Board

FROM: Dan O'Donnell, Chief, Electrical Division

SUBJECT: Journeyman electrician examination application

**APPLICANT REPRESENTATIVE:**

Sixto A. Amaya

**PROJECT:**

N/A

**AUTHORITY:**

The Michigan Electrical Administrative Act, 1956 PA 217 of the Michigan Compiled Laws.

The Electrical Administrative Board General Rules

**REQUEST:**

Request to petition the Electrical Administrative Board to sit for the journeyman electrician examination.

**APPLICABLE RULE:**

1956 PA 217, MCL 338.883a Sec. 3a. (c), MCL 338.883d Sec. 3d. (1), (a), (b), (c), (d), Administrative Board General Rules R338.1005a Rule 5a. (1), (2), (3), R338.1006a Rule 6a (1), (3), (4).

**FINDINGS:**

Mr. Amaya submitted an application to sit for the journeyman electrician examination. The documentation that Mr. Amaya provided indicates that he completed a four year

*Providing for Michigan's Safety in the Built Environment*

electrical apprenticeship through IBEW Local 278 in Corpus Christie, Texas in 1989 attaining 8000 hours of electrical experience working under the direction of licensed electrical contractors signatory with the local union. Mr. Amaya also held a journeyman electrician license in the State of Texas.

**RECOMMENDATION:**

In accordance with the acts and rules listed above staff concludes that Mr. Amaya meets the requirements to sit for the State of Michigan journeyman electrician examination and recommends that the board approve his application.

**Application for Journeyman Electrician Examination**  
 Michigan Department of Licensing and Regulatory Affairs  
 Bureau of Construction Codes / Electrical Division  
 P.O. Box 30255, Lansing, MI 48909  
 517-241-9320  
 www.michigan.gov/bcc

Agency Use Only

6337614

**Examination Fee: \$100.00 (nonrefundable)**

|   |  |
|---|--|
| Authority: 1958 PA 217<br>Completion: Mandatory<br>Penalty: Examination will not be given | LARA is an equal opportunity employer/program. Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. |
|---|--|

**Instructions:** To be eligible to make application for and take this examination an applicant shall meet the following criteria:

- Complete and sign application. Type or print in ink.
- Application and fee must be received 20 business days prior to the examination date.
- Applicant must not be less than 20 years of age.
- Provide **original notarized** documentation from present or former employers to the effect that the applicant has not less than 8,000 hours of practical experience obtained over a period of not less than 4 years related to electrical construction or electrical maintenance of buildings under direct supervision of a person licensed pursuant to the act. Documentation must include the beginning (month, day, year) to ending (month, day, year) dates of employment. The 8,000 hours of practical work experience over 4 years must be attained prior to the deadline date for submitting documentation. **Notarized**, original documentation must be on employers' letterhead stationery and provide dates of employment and hours worked under licensed supervision and signed by the qualified master electrician.
- Enclose a check made payable to the **State of Michigan**.
- Mail completed application, required documents, and payment to the address listed above.

**Information**

Applicants are permitted one examination for the \$100.00 fee. Upon achieving a minimum passing score of 75% or higher, the applicant will be billed \$40.00 for the journeyman electrician license prior to issuance of the license. Failure of examination 2 times within 2 years requires 1 year waiting period from the date of the second failure and proof of successful completion of a course on code, electrical fundamentals or theory to be eligible for reexamination. Examination fee is forfeited upon failure to appear for scheduled examination unless written explanation is received within 10 business days of the examination.

**Examination Eligibility of Applicants From Other States or Countries**

A person who is licensed as a journeyman electrician in another state or country may qualify for examination upon determination by the board that the license was obtained by the person through substantially the same or equal requirements as those of the state of Michigan in accordance with the provisions of section 3a of the act.

**Applicant Information**

|   |                     |                             |  |
|---|---------------------|-----------------------------|--|
| NAME (Last Name, First Name, Middle Initial)<br><b>AMAYA, SIXTO A</b> |                     | DATE OF BIRTH<br>[REDACTED] | LAST 4 DIGITS OF SOCIAL SECURITY NUMBER*<br><b>XXX-XX-[REDACTED]</b> |
| ADDRESS<br>[REDACTED]   | CITY<br>[REDACTED]  | TOWNSHIP<br>[REDACTED]      |  |
| COUNTY<br>[REDACTED]  | STATE<br>[REDACTED] | ZIP CODE<br>[REDACTED]      | TELEPHONE NUMBER (Include Area Code)<br>[REDACTED]                   |

Have you previously taken this examination?  Yes  No

If examination was not administered by the State Electrical Division provide the licensing entity:

City of \_\_\_\_\_ Township of \_\_\_\_\_

**Examination Site**

Examinations are given at the sites listed below. Refer to the enclosed "Schedule of Electrical Board Meetings and Licensing Examinations" for examination dates. Please check below the site you wish to be examined at and indicate a preference of examination month. If approved for examination, an admission card will be mailed to you approximately 10 days prior to the examination date. If the examination you have selected is full, you will be scheduled for the next available examination at your preferred site.

|   |                        |
|---|------------------------|
| <u>Preferred Site</u>                       | <u>Preferred Month</u> |
| <input checked="" type="checkbox"/> Lansing | <u>11/21/2013</u>      |
| <input type="checkbox"/> Escanaba           | _____                  |

SEP 04 2013  
ELECTRICAL DIVISION

If you have a disability and require an accommodation to take the examination, please submit written documentation from a professional (education professional, doctor, psychologist, psychiatrist) to certify that your disabling condition requires the requested test accommodation. Forms are available from this office.

\*This information is confidential. Disclosure of confidential information is protected by the Federal Privacy Act.

**Experience Record (attach additional sheets if necessary)**

|   |                               |   |                          |
|---|-------------------------------|---|--------------------------|
| NAME OF CURRENT EMPLOYER<br><b>IBEW #278</b>            |                               | DATES OF EMPLOYMENT (MM/DD/YY)<br>BEGINNING: <b>11/26/86</b> ENDING: <b>PRESENT</b> |                          |
| ADDRESS<br><b>2301 SARATOGA BLVD</b>                    | CITY<br><b>CORPUS CHRISTI</b> | STATE<br><b>TX</b>  | ZIP CODE<br><b>78417</b> |
| TYPE OF WORK PERFORMED<br><b>JOURNEYMAN ELECTRICIAN</b> |                               |   |                          |
| NAME OF EMPLOYER  |                               | DATES OF EMPLOYMENT (MM/DD/YY)  |                          |
| ADDRESS   | CITY                          | STATE   | ZIP CODE                 |
| TYPE OF WORK PERFORMED                                  |                               |   |                          |

**Certification and Signature of Applicant**

I certify the information provided is true and accurate to the best of my ability and I have the experience required for this examination. I further understand fraud or deceit in obtaining a license is grounds for administrative action in accordance with the act.

|  |                        |
|--|------------------------|
| APPLICANT'S SIGNATURE<br><i>Sixto A. Amaya</i> | DATE<br><b>8/29/13</b> |
|--|------------------------|

**Agency Use Only**

Approved for Exam     Yes     No

| Date of Exam | Score | Absent | Date of Exam | Score | Absent |
|--------------|-------|--------|--------------|-------|--------|
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |

**Validation Area**

Tran Info:103 18906720-1 09/03/13  
 Chkd: 1036723    Amt: \$100.00  
 TO: SIXTO A AMAYA

Date Approved by EAB \_\_\_\_\_

RECEIVED

SEP 04 2013

ELECTRICAL  
DIVISION

# INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS

Local Union No. 278

Mike Carranco, Business Manager



*"Organizing for a higher standard of living"*

Wednesday, August 14, 2013

To Whom It May Concern:

This letter will verify that Sixto Amaya, a member in good standing of Local Union 278, IBEW, completed the Local Union 278, IBEW Joint Apprenticeship and Training on October 24, 1989.

He had the required number of 8,000 hours in order to graduate from the four year program. The master electrician he worked for during that time is no longer in business.

Mr. Amaya has been a member of Local Union 278 from 1986 to the present time.

If you should require further information, please let me know.

Sincerely yours,

A handwritten signature in cursive script that reads "Mike Carranco".

Mike Carranco  
Business Manager/Financial Secretary  
L. U. 278, IBEW

MC/mc

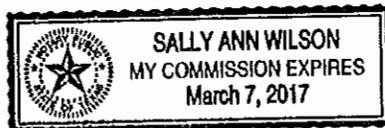
RECEIVED  
SEP 04 2013  
ELECTRICAL  
DIVISION

STATE OF TEXAS  
COUNTY OF NUECES

SUBSCRIBED AND SWORN BEFORE ME THIS 15<sup>th</sup> DAY OF August 2013

A handwritten signature in cursive script that reads "Sally Wilson".

SALLY WILSON  
MY COMMISSION EXPIRES 03/07/2017



Locally Chartered April 24, 1926

TEXAS GULF COAST



SOUTHEAST TEXAS CHAPTER  
NECA

**ELECTRICAL**  
JOINT APPRENTICESHIP  
and  
TRAINING COMMITTEE

4410 Dillon Lane #38  
Corpus Christi, Texas 78415  
(512) 854-0920



LOCAL UNION 278  
IBEW

CERTIFICATION TO JOURNEYMAN WIREMAN

This is a Letter of Certification of Completion of  
Apprenticeship training for Apprentice

*SIXTO AMAYA*

He has completed all lessons and all tests that were  
required in his apprentice schooling. He has maintained  
the grade average on all tests. He has the required number  
of on-the-job training hours.

Having met all the requirements of the Joint Apprenticeship  
and Training Committee Standards, he is there by Certified  
as a Journeyman Inside Wireman.

For the J.A.T.C. *D.C. McHonagill*  
Training Director

Date: *10-24-89*

For the I.B.E.W., Lu. 278, all fees have been paid.

Date: *11-25-91* *D.C. McHonagill*  
Financial Secretary

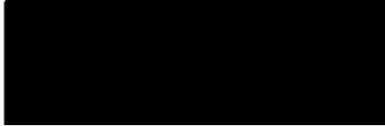
Presently employed by: *LAWRENCE Electric Co.*

one copy each:  
L.U. 278, I.B.E.W.  
Employer.

City Building Officials Association  
JOURNEYMAN ELECTRICIAN  
No. 110 A AMA \* A  
Address [REDACTED]  
City \_\_\_\_\_  
Has passed the Electrical Exam. with a satisfactory grade.  
Date July 6, 1989  
President \_\_\_\_\_  
Secretary \_\_\_\_\_

RECEIVED  
SEP 04 2013  
ELECTRICAL  
DIVISION

SIXTO A AMAYA



The license at the bottom of this page should be prominently displayed at your primary business location.

You may wish to laminate the pocket identification card to preserve it.

|   |   |
|---|---|
|  <p>SIXTO A AMAYA<br/>Journeyman Electrician</p> <p>License Number: 00041255<br/>License Expires: JUNE 25 2005</p> | <p>The person named on the reverse is licensed by the</p> <p>TEXAS DEPARTMENT OF LICENSING AND REGULATION<br/>P.O. Box 12157<br/>Austin, Texas 78711-2157<br/>1-800-803-9202 (512) 463-6599<br/><a href="http://www.license.state.tx.us">http://www.license.state.tx.us</a></p> |
|---|---|

*Journeyman Electrician*

SIXTO A AMAYA

License Number: 00041255

The person named above is licensed by the Texas Department of Licensing and Regulation

License Expires: JUNE 25 2005

Handwritten signature of William H. Kuntz in black ink.

William H. Kuntz  
Executive Director

## Electrician's Licenses

You need a license to do electrical work in Texas. To get an application, contact:

 **Texas Department of Licensing and Regulation**  
P.O. Box 13489  
Austin, TX 78711  
(800) 803-9202  
Fax: (512) 475-2871  
<http://www.license.state.tx.us/electricians/elec.htm>  
[electricians@license.state.tx.us](mailto:electricians@license.state.tx.us)

Here are the licensed the Department issues, followed by qualifications for licensure:

- *Electrical contractor (Business license)* - must either be a licensed master electrician or employ one, show proof of financial responsibility (will be defined by rule), and meet statutory requirements for workers compensation coverage
- *Electrical sign contractor (Business license)* - must either be a licensed master sign electrician or employ one, show proof of financial responsibility (will be defined by rule), and meet statutory requirements for workers compensation coverage
- *Residential Appliance Installation Contractor (Business license)* - Either be a residential appliance installer or employ one, maintain business liability insurance, and meet statutory requirements for workers compensation coverage
- *Master electrician* - must have 12,000 hours of on-the-job training under supervision of master electrician and pass the master electrician examination
- *Master sign electrician* - must have 12,000 hours of on-the-job training under supervision of a master sign electrician and pass the master sign electrician examination
- *Journeyman electrician* - must have 8,000 hours of on-the-job training under supervision of a master electrician and pass the journeyman electrician examination
- *Journeyman sign electrician* - must have 8,000 hours of on-the-job training under the supervision of a master sign electrician and pass the journeyman sign electrician examination
- *Residential wireman* - must have 4,000 hours of on-the-job training under the supervision of a master electrician or residential wireman and pass the residential wireman examination
- *Maintenance electrician* - must have 8,000 hours of on-the-job training under the supervision of a master electrician or a maintenance electrician and pass the maintenance electrician examination
- *Residential Appliance Installer* - Be at least 16 years old, and pass the residential appliance installer examination
- *Electrical apprentice* - must be at least 16 years old and be assisting in installation of electrical work under the supervision of a master electrician

RECEIVED

MAR 27 2013

ELECTRICAL  
DIVISION



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

Date Mailed from BCC: 10-29-2013

Sixto A. Amaya



Document E-13-68  
Exam Applicant Review

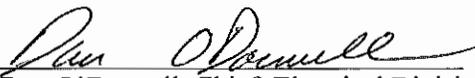
**NOTICE OF MICHIGAN ADMINISTRATIVE ELECTRICAL BOARD MEETING**

You are hereby notified that in accordance with the Administrative Procedures Act, 1969 PA 306, MCL 24.201 *et seq.*, and the Electrical Administrative Act being 1956 PA 217 MCL 338.881 *et seq.*, you are scheduled to appear before the Michigan Electrical Administrative Board on:

Date: November 7, 2013  
Time: 9:30 a.m.  
Location: Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes  
2501 Woodlake Circle, Conference Room 3  
Okemos, MI 48864

This notice is to provide you the opportunity to provide testimony to the board regarding your experience and eligibility to sit for the journeyman electrician exam. If you wish to offer any document(s) into evidence, you must file the documentation with the Electrical Division prior to the meeting or bring fifteen (15) copies of the information you wish to enter for the board's consideration. In the event you are unable to attend the meeting or you choose not to appear before the board, please contact the Electrical Division in advance of the meeting. In the event that you fail to appear at the meeting as scheduled, a decision may be entered in your absence.

Accompanying this notice is a report outlining our findings and recommendation based upon the Electrical Administrative Act being 1956 PA 217 MCL and the documentation you have provided at the time of mailing. Any questions regarding this matter may be directed to the Electrical Division at (517) 241-9320.

  
Dan O'Donnell, Chief, Electrical Division

10/29/2013  
Date

*Providing for Michigan's Safety in the Built Environment*

LARA is an equal opportunity employer  
Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.  
P.O. BOX 30254 • LANSING, MICHIGAN 48909  
www.michigan.gov/bcc • Telephone (517) 241-9302 • Fax (517) 241-9570

Exam Applicant Review  
Sixto A. Amaya  
Document No. E-13-68  
November 7, 2013  
Page 2 of 4

**PROOF OF SERVICE**

I hereby state, to the best of my knowledge, information, and belief, that a copy of the foregoing document was served on this date upon all parties and/or attorneys of record in this matter by email to those parties employed by the State of Michigan and by first class mail to the remaining parties at their respective addresses as disclosed below.

*Toni Nelson*

\_\_\_\_\_  
Toni Nelson, Secretary  
Electrical Division  
Bureau of Construction Codes

*10-29-2013*

\_\_\_\_\_  
Date

Sixto A. Amaya



BCC Administration



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

November 7, 2013

E-13-69

TO: Members of the State Electrical Administrative Board

FROM: Dan O'Donnell, Chief, Electrical Division

SUBJECT: Journeyman electrician examination application

**APPLICANT REPRESENTATIVE:**

West W. Whitehead

**PROJECT:**

N/A

**AUTHORITY:**

The Michigan Electrical Administrative Act, 1956 PA 217 of the Michigan Compiled Laws.

The Electrical Administrative Board General Rules

**REQUEST:**

Request to petition the Electrical Administrative Board to sit for the journeyman electrician examination.

**APPLICABLE RULE:**

1956 PA 217, MCL 338.883a Sec. 3a. (c), MCL 338.883d Sec. 3d. (1), (a), (b), (c), (d), Administrative Board General Rules R338.1005a Rule 5a. (1), (2), (3), R338.1006a Rule 6a (1), (3), (4).

**FINDINGS:**

Mr. Whitehead submitted an application to sit for the journeyman electrician examination. The documentation provided by Mr. Whitehead indicates that he has over

*Providing for Michigan's Safety in the Built Environment*

8600 hours of electrical experience and completed a five year electrical apprenticeship through IBEW Local 1205 in Gainesville, Florida and the NJATC.

**RECOMMENDATION:**

In accordance with the acts and rules listed above staff concludes that Mr. Whitehead meets the requirements to sit for the State of Michigan journeyman electrician examination and recommends that the board approve his application.

**Application for Journeyman Electrician Examination**  
 Michigan Department of Licensing and Regulatory Affairs  
 Bureau of Construction Codes / Electrical Division  
 P.O. Box 30255, Lansing, MI 48909  
 517-241-9320  
 www.michigan.gov/bcc

Agency Use Only

633720

**Examination Fee: \$100.00 (nonrefundable)**

|   |  |
|---|--|
| Authority: 1956 PA 217<br>Completion: Mandatory<br>Penalty: Examination will not be given | LARA is an equal opportunity employer/program. Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. |
|---|--|

**Instructions:** To be eligible to make application for and take this examination an applicant shall meet the following criteria:

- Complete and sign application. Type or print in ink.
- Application and fee must be received 20 business days prior to the examination date.
- Applicant must not be less than 20 years of age.
- Provide **original notarized** documentation from present or former employers to the effect that the applicant has not less than 8,000 hours of practical experience obtained over a period of not less than 4 years related to electrical construction or electrical maintenance of buildings under direct supervision of a person licensed pursuant to the act. Documentation must include the beginning (month, day, year) to ending (month, day, year) dates of employment. The 8,000 hours of practical work experience over 4 years must be attained prior to the deadline date for submitting documentation. **Notarized**, original documentation must be on employers' letterhead stationery and provide dates of employment and hours worked under licensed supervision and signed by the qualified master electrician.
- Enclose a check made payable to the **State of Michigan**.
- Mail completed application, required documents, and payment to the address listed above.

**Information**

Applicants are permitted one examination for the \$100.00 fee. Upon achieving a minimum passing score of 75% or higher, the applicant will be billed \$40.00 for the journeyman electrician license prior to issuance of the license. Failure of examination 2 times within 2 years requires 1 year waiting period from the date of the second failure and proof of successful completion of a course on code, electrical fundamentals or theory to be eligible for reexamination. Examination fee is forfeited upon failure to appear for scheduled examination unless written explanation is received within 10 business days of the examination.

**Examination Eligibility of Applicants From Other States or Countries**

A person who is licensed as a journeyman electrician in another state or country may qualify for examination upon determination by the board that the license was obtained by the person through substantially the same or equal requirements as those of the state of Michigan in accordance with the provisions of section 3a of the act.

**Applicant Information**

|  |                     |                             |   |
|--|---------------------|-----------------------------|---|
| NAME (Last Name, First Name, Middle Initial)<br>WHITEHEAD WEST W |                     | DATE OF BIRTH<br>[REDACTED] | LAST 4 DIGITS OF SOCIAL SECURITY NUMBER*<br>XXX-XX-[REDACTED] |
| CITY<br>[REDACTED]   |                     | TOWNSHIP<br>[REDACTED]      |   |
| COUNTY<br>[REDACTED]   | STATE<br>[REDACTED] | ZIP CODE<br>[REDACTED]      | TELEPHONE NUMBER (include Area Code)<br>[REDACTED]            |

Have you previously taken this examination?  Yes  No

If examination was not administered by the State Electrical Division provide the licensing entity: \_\_\_\_\_

City of \_\_\_\_\_ Township of \_\_\_\_\_

**Examination Site**

Examinations are given at the sites listed below. Refer to the enclosed "Schedule of Electrical Board Meetings and Licensing Examinations" for examination dates. Please check below the site you wish to be examined at and indicate a preference of examination month. If approved for examination, an admission card will be mailed to you approximately 10 days prior to the examination date. If the examination you have selected is full, you will be scheduled for the next available examination at your preferred site.

|   |                        |
|---|------------------------|
| <u>Preferred Site</u>                       | <u>Preferred Month</u> |
| <input checked="" type="checkbox"/> Lansing | NOVEMBER               |
| <input type="checkbox"/> Escanaba           | _____                  |

Tran Info: 103 18932900-2 09/13/13  
 Chk#: 2408 Amt: \$100.00  
 ID: SONYA WHITEHEAD

If you have a disability and require an accommodation to take the examination, please submit written documentation from a professional (education professional, doctor, psychologist, psychiatrist) to certify that your disabling condition requires the requested test accommodation. Forms are available from this office.

\*This information is confidential. Disclosure of confidential information is protected by the Federal Privacy Act.

RECEIVED

SEP 18 2013

ELECTRICAL  
DIVISION

West William Whitehead

[REDACTED]

[REDACTED]

August 19, 2013

To Whom it may concern:

I have recently moved to Michigan from Florida. I have obtained employment with Brennan Electrical Contractors Inc., Troy MI. In talking with the licensing bureau I was instructed by them to write this letter in order to set up a preliminary meeting with the EAB board as the initial procedure for licensing in Michigan.

I have enclosed my 8611 hours of work certification with my local union in Florida & certificate of apprenticeship and completion with Journeyman Wireman status. In Florida I was enrolled in a 5 year apprenticeship training program with the local and passed the journeyman testing with the State of Florida.

My goal is to obtain a journeyman's license with the State of Michigan and it is my understanding that the next testing for Journeyman electrician is in November 2013. Please inform me and confirm that November date is acceptable to you and let me know in writing the date, time and location of the upcoming meeting and testing.

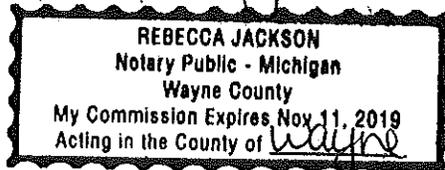
I appreciate your help in this matter and have also enclosed the apprentice application in Michigan with the \$15 fee as indicated by your office. I have also enclosed the \$100 fee for the upcoming testing. Please advise me if anything is needed by me prior to the testing date.

Respectfully,



West William Whitehead

SUBSCRIBED AND SWORN TO ME  
ON THIS 11th DAY OF Sep 2013  
IN THE STATE OF MICHIGAN,  
COUNTY OF WAYNE.



RECEIVED  
SEP 18 2013  
ELECTRICAL  
DIVISION

# Completion of Apprenticeship

## Florida Department of Education

Division of Workforce Education

*This Is To Certify That*

**WEST W. WHITEHEAD**

has with merit fulfilled the terms of the apprenticeship agreement in accordance with the standards prescribed by the Division of Workforce Education, Apprenticeship, and the Federal Committee on Apprenticeship, and is hereby recognized as a qualified

**ELECTRICIAN**

together with all rights, privileges and opportunities which pertain thereto.

RECEIVED  
SEP 18 2013  
ELECTRICAL  
DIVISION

APPRENTICESHIP SPONSOR FL 008480002

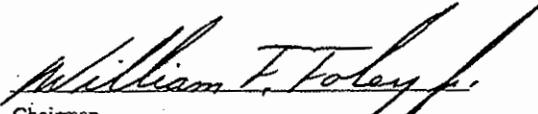
Gainesville Electrical JATC

FL 98E033540  
ID Number

May 1, 2009

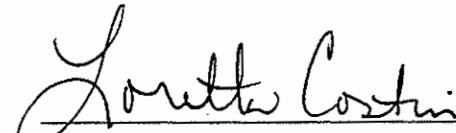
Date Completed

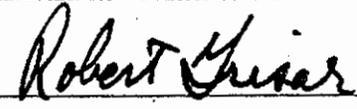
FLORIDA DEPARTMENT OF EDUCATION

  
Chairman

  
Secretary



  
Vice Chancellor for Workforce Education

  
Program Director of Apprenticeship



The Trustees  
of



*The National Joint Apprenticeship and Training Committee*

for the  
INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS.  
and the  
NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION

upon the Recommendation of the  
**Gainesville Electrical**

JOINT APPRENTICESHIP AND TRAINING COMMITTEE

do hereby present this diploma to

**West W. Whitehead**

*In recognition of satisfactory completion of their indenture, as indicated by acquiring the minimum number of on-the-job hours, related studies and/or classroom training; thereby accomplishing a degree of knowledge and skill level which is mastered only by those who attain the goals and standards set forth by this Industry. The above named graduate is therefore worthy and deserving of the Internationally Recognized classification of*

**Journeyman Wireman**

*which is herewith conferred as acknowledged by the signatures of the Trustees  
on this first day of May in the year 2009*

RECEIVED  
SEP 18 2013  
ELECTRICAL  
DIVISION

*Egwin D. Hill*  
President, IBEW

*John M. Gian*  
Executive Vice President & CEO, NECA



*Larry D. Coghlan*  
JATC Chairman

*Joseph Ruggs*  
JATC Secretary



# Gainesville Electrical Joint Apprenticeship and Training Committee



P.O. Box 5428 • Gainesville, Florida 32627 • Phone: (352) 376-8375 • Fax: (352) 371-0288

October 3, 2013



Department of Licensing and Regulatory Affairs  
Attn: Evie Livingston, Departmental Technician  
P.O. Box 30254  
Lansing, MI 48909

Dear Evie:

The following is the documentation you requested for West Whitehead that includes the total monthly hours he worked and the list of contractors with their license number. All of these companies are in Florida and the State of Florida does not have a Journeyman License requirement.

|            |            |         |       |
|------------|------------|---------|-------|
| Lighting   | ER0010673  | 728.00  | Hours |
| Carr Elec. | EC0001964  | 1923.50 | Hours |
| F & H      | EC0001900  | 4251.00 | Hours |
| Rossman    | EC13002327 | 1709.00 | Hours |

Sincerely,

Shawn C. Graves  
Director  
Gainesville Electrical J.A.T.C.

Subscribed and sworn before me, this 3rd  
day of October, 2013 a Notary Public  
in and for Alachua County,  
State of Florida

**NOTARY PUBLIC**

My Commission expires December 06, 2014

CC:file

RECEIVED

OCT 08 2013

ELECTRICAL  
DIVISION





RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

Date Mailed from BCC: 10-29-2013

West W. Whitehead  


Document E-13-69  
Exam Applicant Review

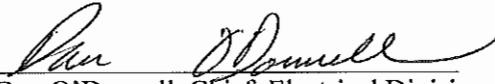
**NOTICE OF MICHIGAN ADMINISTRATIVE ELECTRICAL BOARD MEETING**

You are hereby notified that in accordance with the Administrative Procedures Act, 1969 PA 306, MCL 24.201 *et seq.*, and the Electrical Administrative Act being 1956 PA 217 MCL 338.881 *et seq.*, you are scheduled to appear before the Michigan Electrical Administrative Board on:

Date: November 7, 2013  
Time: 9:30 a.m.  
Location: Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes  
2501 Woodlake Circle, Conference Room 3  
Okemos, MI 48864

This notice is to provide you the opportunity to provide testimony to the board regarding your experience and eligibility to sit for the journeyman electrician exam. If you wish to offer any document(s) into evidence, you must file the documentation with the Electrical Division prior to the meeting or bring fifteen (15) copies of the information you wish to enter for the board's consideration. In the event you are unable to attend the meeting or you choose not to appear before the board, please contact the Electrical Division in advance of the meeting. In the event that you fail to appear at the meeting as scheduled, a decision may be entered in your absence.

Accompanying this notice is a report outlining our findings and recommendation based upon the Electrical Administrative Act being 1956 PA 217 MCL and the documentation you have provided at the time of mailing. Any questions regarding this matter may be directed to the Electrical Division at (517) 241-9320.

  
Dan O'Donnell, Chief, Electrical Division

10/29/2013  
Date

*Providing for Michigan's Safety in the Built Environment*

Exam Applicant Review  
West W. Whitehead  
Document No. E-13-69  
November 7, 2013  
Page 2 of 4

**PROOF OF SERVICE**

I hereby state, to the best of my knowledge, information, and belief, that a copy of the foregoing document was served on this date upon all parties and/or attorneys of record in this matter by email to those parties employed by the State of Michigan and by first class mail to the remaining parties at their respective addresses as disclosed below.

*Toni Nelson*

\_\_\_\_\_  
Toni Nelson, Secretary  
Electrical Division  
Bureau of Construction Codes

*10/29/2013*

\_\_\_\_\_  
Date

West W. Whitehead



BCC Administration



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

November 7, 2013

E-13-70

**TO:** Members of the State Electrical Administrative Board

**FROM:** Dan O'Donnell, Chief, Electrical Division

**SUBJECT:** Journeyman electrician examination application

**APPLICANT REPRESENTATIVE:**

Jeremy R. Benjamin

**PROJECT:**

N/A

**AUTHORITY:**

The Michigan Electrical Administrative Act, 1956 PA 217 of the Michigan Compiled Laws.

The Electrical Administrative Board General Rules

**REQUEST:**

Request to petition the Electrical Administrative Board to sit for the journeyman electrician examination.

**APPLICABLE RULE:**

1956 PA 217, MCL 338.883a Sec. 3a. (c), MCL 338.883d Sec. 3d. (1), (a), (b), (c), (d), Administrative Board General Rules R338.1005a Rule 5a. (1), (2), (3), R338.1006a Rule 6a (1), (3), (4).

**FINDINGS:**

Mr. Benjamin submitted an application to sit for the journeyman electrician examination. Mr. Benjamin included documentation that indicates that from June 1,

*Providing for Michigan's Safety in the Built Environment*

2008 to June 1 2013 he attained 10000 hours of electrical experience and completed a five year electrical apprenticeship through IBEW Local 269 and the NJATC in Trenton, New Jersey. Mr. Benjamin was employed by licensed electrical contractors in the State of New Jersey.

**RECOMMENDATION:**

In accordance with the acts and rules listed above staff concludes that Mr. Benjamin meets the requirements to sit for the State of Michigan journeyman electrician examination and recommends that the board approve his application.

**Application for Journeyman Electrician Examination**  
 Michigan Department of Licensing and Regulatory Affairs  
 Bureau of Construction Codes / Electrical Division  
 P.O. Box 30255, Lansing, MI 48909  
 517-241-9320  
 www.michigan.gov/bcc

Agency Use Only

6337621

**Examination Fee: \$100.00 (nonrefundable)**

|   |  |
|---|--|
| Authority: 1956 PA 217<br>Completion: Mandatory<br>Penalty: Examination will not be given | LARA is an equal opportunity employer/program. Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. |
|---|--|

**Instructions:** To be eligible to make application for and take this examination an applicant shall meet the following criteria:

- Complete and sign application. Type or print in ink.
- Application and fee must be received 20 business days prior to the examination date.
- Applicant must not be less than 20 years of age.
- Provide **original notarized** documentation from present or former employers to the effect that the applicant has not less than 8,000 hours of practical experience obtained over a period of not less than 4 years related to electrical construction or electrical maintenance of buildings under direct supervision of a person licensed pursuant to the act. Documentation must include the beginning (month, day, year) to ending (month, day, year) dates of employment. The 8,000 hours of practical work experience over 4 years must be attained prior to the deadline date for submitting documentation. **Notarized**, original documentation must be on employers' letterhead stationery and provide dates of employment and hours worked under licensed supervision and signed by the qualified master electrician.
- Enclose a check made payable to the State of Michigan.
- Mail completed application, required documents, and payment to the address listed above.

**Information**

Applicants are permitted one examination for the \$100.00 fee. Upon achieving a minimum passing score of 75% or higher, the applicant will be billed \$40.00 for the journeyman electrician license prior to issuance of the license. Failure of examination 2 times within 2 years requires 1 year waiting period from the date of the second failure and proof of successful completion of a course on code, electrical fundamentals or theory to be eligible for reexamination. Examination fee is forfeited upon failure to appear for scheduled examination unless written explanation is received within 10 business days of the examination.

**Examination Eligibility of Applicants From Other States or Countries**

A person who is licensed as a journeyman electrician in another state or country may qualify for examination upon determination by the board that the license was obtained by the person through substantially the same or equal requirements as those of the state of Michigan in accordance with the provisions of section 3a of the act.

**Applicant Information**

|  |                     |                             |   |
|--|---------------------|-----------------------------|---|
| NAME (Last Name, First Name, Middle Initial)<br><u>Benjamin Jeremy R</u> |                     | DATE OF BIRTH<br>[REDACTED] | LAST 4 DIGITS OF SOCIAL SECURITY NUMBER*<br>XXX-XX-[REDACTED] |
| ADDRESS<br>[REDACTED]  | CITY<br>[REDACTED]  | TOWNSHIP<br>[REDACTED]      |   |
| COUNTY<br>[REDACTED]   | STATE<br>[REDACTED] | ZIP CODE<br>[REDACTED]      | TELEPHONE NUMBER (Include Area Code)<br>[REDACTED]            |

Have you previously taken this examination?  Yes  No

If examination was not administered by the State Electrical Division provide the licensing entity:

City of \_\_\_\_\_ Township of \_\_\_\_\_

**Examination Site**

Examinations are given at the sites listed below. Refer to the enclosed "Schedule of Electrical Board Meetings and Licensing Examinations" for examination dates. Please check below the site you wish to be examined at and indicate a preference of examination month. If approved for examination, an admission card will be mailed to you approximately 10 days prior to the examination date. If the examination you have selected is full, you will be scheduled for the next available examination at your preferred site.

|   |                        |
|---|------------------------|
| <u>Preferred Site</u>                       | <u>Preferred Month</u> |
| <input checked="" type="checkbox"/> Lansing | <u>November</u>        |
| <input type="checkbox"/> Escanaba           | _____                  |

SEP 19 2013  
ELECTRICAL DIVISION

If you have a disability and require an accommodation to take the examination, please submit written documentation from a professional (education professional, doctor, psychologist, psychiatrist) to certify that your disabling condition requires the requested test accommodation. Forms are available from this office.

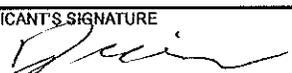
\*This information is confidential. Disclosure of confidential information is protected by the Federal Privacy Act.

**Experience Record (attach additional sheets if necessary)**

|   |                         |   |                   |
|---|-------------------------|---|-------------------|
| NAME OF CURRENT EMPLOYER<br>H.B. Frazer Company   |                         | DATES OF EMPLOYMENT (MM/DD/YY)<br>BEGINNING: 4/8/13      ENDING: 7/14/13      |                   |
| ADDRESS<br>514 Shoemaker Rd   | CITY<br>King of Prussia | STATE<br>PA   | ZIP CODE<br>19406 |
| TYPE OF WORK PERFORMED<br>Installed lighting circuits & fixtures, investigating fault-circuits, installed branch circuits for electrical outlets. |                         |   |                   |
| NAME OF EMPLOYER<br>Voacolo/WPCS Electric   |                         | DATES OF EMPLOYMENT (MM/DD/YY)<br>BEGINNING: 7/20/2008      ENDING: 3/29/2013 |                   |
| ADDRESS<br>65 Patterson Ave   | CITY<br>Trenton         | STATE<br>NJ   | ZIP CODE<br>08610 |
| TYPE OF WORK PERFORMED<br>installed underground conduit, EMT conduit, switchgear, Panel boards<br>Branch circuits, Fire alarm, low voltage wiring |                         |   |                   |

**Certification and Signature of Applicant**

I certify the information provided is true and accurate to the best of my ability and I have the experience required for this examination. I further understand fraud or deceit in obtaining a license is grounds for administrative action in accordance with the act.

|  |                      |
|--|----------------------|
| APPLICANT'S SIGNATURE<br> | DATE<br>17 Sept 2013 |
|--|----------------------|

**Agency Use Only**

Approved for Exam     Yes     No

Validation Area

| Date of Exam | Score | Absent | Date of Exam | Score | Absent |
|--------------|-------|--------|--------------|-------|--------|
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |

Date Approved by EAB \_\_\_\_\_

RECEIVED  
SEP 19 2013  
ELECTRICAL  
DIVISION

CERTIFICATE OF RELEASE OR DISCHARGE FROM ACTIVE DUTY

|   |                    |   |  |   |  |
|---|--------------------|---|--|---|--|
| 1. NAME (Last, First, Middle)<br>BENJAMIN JEREMY ROBERT |                    | 2. DEPARTMENT, COMPONENT AND BRANCH<br>AIR FORCE -- REG AF                                      |  | 3. SOCIAL SECURITY NUMBER<br>[REDACTED] |  |
| 4a. GRADE, RATE OR RANK<br>AMN                          | b. PAY GRADE<br>E2 | 5. DATE OF BIRTH (YYYYMMDD)<br>[REDACTED]   | 6. RESERVE OBLIGATION TERMINATION DATE (YYYYMM:DD) N/A |   |  |
| 7a. PLACE OF ENTRY INTO ACTIVE DUTY<br>LANSING, MI      |                    | b. HOME OF RECORD AT TIME OF ENTRY (City and state, or complete address if known)<br>[REDACTED] |  |   |  |

|  |  |
|--|--|
| 8a. LAST DUTY ASSIGNMENT AND MAJOR COMMAND<br>314 MAINTENANCE GP (AET) | b. STATION WHERE SEPARATED<br>LITTLE ROCK AFB AR |
|--|--|

|   |   |
|---|---|
| 9. COMMAND TO WHICH TRANSFERRED<br>NOT APPLICABLE | 10. SGLI COVERAGE AMOUNT: \$400,000 <input type="checkbox"/> NONE |
|---|---|

|  |                                   |      |     |    |
|--|-----------------------------------|------|-----|----|
| 11. PRIMARY SPECIALTY (List number, title and years and months in specialty. List additional specialty numbers and titles involving periods of one or more years.)<br>2A531B, Aerospace Maintenance, C-12/C-26/C-27/C-130, 1yr, 1month, and 7days. | 12. RECORD OF SERVICE             |      |     |    |
|  | a. DATE ENTERED AD THIS PERIOD    | 2006 | Feb | 14 |
|  | b. SEPARATION DATE THIS PERIOD    | 2007 | Mar | 20 |
|  | c. NET ACTIVE SERVICE THIS PERIOD | 01   | 01  | 07 |
|  | d. TOTAL PRIOR ACTIVE SERVICE     | 00   | 00  | 00 |
|  | e. TOTAL PRIOR INACTIVE SERVICE   | 00   | 00  | 00 |
|  | f. FOREIGN SERVICE                | 00   | 00  | 00 |
|  | g. SEA SERVICE                    | 00   | 00  | 00 |
| h. EFFECTIVE DATE OF PAY GRADE   |                                   | 2006 | Aug | 14 |

|   |  |
|---|--|
| 13. DECORATIONS, MEDALS, BADGES, CITATIONS AND CAMPAIGN RIBBONS AWARDED OR AUTHORIZED (All periods of service)<br>Air Force Training Ribbon, National Defense Service Medal, Global War on Terrorism Service Medal. | 14. MILITARY EDUCATION (Course title, number of weeks, and month and year completed)<br>Basic Military Training, 6wks, 0306. |
|---|--|

|  |   |                             |
|--|---|-----------------------------|
| 15a. MEMBER CONTRIBUTED TO POST-VIETNAM ERA VETERANS' EDUCATIONAL ASSISTANCE PROGRAM | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| b. HIGH SCHOOL GRADUATE OR EQUIVALENT  | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |

|                                  |  |                              |  |
|----------------------------------|--|------------------------------|--|
| 16. DAYS ACCRUED LEAVE PAID 25.0 | 17. MEMBER WAS PROVIDED COMPLETE DENTAL EXAMINATION AND ALL APPROPRIATE DENTAL SERVICES AND TREATMENT WITHIN 90 DAYS PRIOR TO SEPARATION | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> |
|----------------------------------|--|------------------------------|--|

18. REMARKS  
MEMBER DID NOT COMPLETE FIRST FULL TERM OF ACTIVE SERVICE. MEMBER IS NOT SUBJECT TO RECALL OR ANNUAL SCREENING. NOTHING FOLLOWS.

RECEIVED  
SEP 19 2013  
ELECTRICAL DIVISION

|  |  |
|--|--|
| 19a. MAILING ADDRESS AFTER SEPARATION (Include Zip Code)<br>129 E GRAND RIVER 3813 | b. NEAREST RELATIVE (Name and address - include Zip Code)<br>KATRINA BENJAMIN [REDACTED] |
|--|--|

|   |   |                             |
|---|---|-----------------------------|
| 20. MEMBER REQUESTS COPY 6 BE SENT TO MI DIRECTOR OF VETERANS AFFAIRS | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
|---|---|-----------------------------|

|   |   |
|---|---|
| 21. SIGNATURE OF MEMBER BEING SEPARATED<br><i>[Signature]</i> | 22. OFFICIAL AUTHORIZED TO SIGN (Typed name, grade, title and signature)<br>ANGELA R. CATCHINGS, MSGT, USAF<br>SUPT, Relocation & Employments |
|---|---|

|   |  |                            |  |   |  |
|---|--|----------------------------|--|---|--|
| 23. TYPE OF SEPARATION<br>DISCHARGE                                       |  |                            | 24. CHARACTER OF SERVICE (include upgrades)<br>HONORABLE |   |  |
| 25. SEPARATION AUTHORITY<br>36-3208                                       |  | 26. SEPARATION CODE<br>JEM |  | 27. REENTRY CODE<br>20                    |  |
| 28. NARRATIVE REASON FOR SEPARATION<br>DIABILITY EXISTED PRIOR TO SERVICE |  |                            |  |   |  |
| 29. DATES OF TIME LOST DURING THIS PERIOD (YYYYMMDD)<br>NONE              |  |                            |  | 30. MEMBER REQUESTS COPY 4 (Initials) JFB |  |



New Jersey Office of the Attorney General

Division of Consumer Affairs
Board of Examiners of Electrical Contractors
124 Halsey Street, 6th Floor, P.O. Box 45006
Newark, New Jersey 07101
(973) 504-6410

Work-Experience Certification for Qualified Journeyman Electrician

(To be completed by the individual named as a reference.) (Please print.)

Jeremy Benjamin

Name of applicant

[Redacted]

Applicant's address

[Redacted]

City

State

ZIP code

[Redacted]

Telephone number (include area code)

IBEW Local Union 269

Name of reference and company name

670 Whitehead Road

Reference's address

Trenton

New Jersey

08648

City

State

ZIP code

(609) 394-8129

Internet address

1. Applicant's practical hands-on experience working with tools in the installation, alteration, or repair of wiring for electric light, heat or power.

A. Exact dates:

From: 6, 1, 2008 to 6, 1, 2013

B. Average number of hours per week: 40

C. Explain electrical experience.

Performed electrical wiring with tools in all phases of electrical work including Residential, Commercial and Industrial. Specifically, AC motor control, fire alarm, security, teledata, transformers, branch wiring, pipe bending and specialty work.

Performed maintenance of electrical wiring in all phases of electrical work including Residential, Commercial and Industrial buildings. Specifically, repair to AC motor control, fire alarm, security, teledata, transformers, branch wiring and various specialty type work.

2. Are you an electrical contractor? [ ] Yes [X] No

If "Yes," in what state? License number:

If you are a New Jersey Electrical Contractor, impress your Business Permit Seal.

Affix Seal Here

3. I hereby certify that I am the Business Manager of IBEW Local Union 269

Reference/Title

Company

and that I have personal knowledge of the qualifications of the applicant and that he/she worked for me in the installation, alteration, or repair of wiring for electric light, heat or power with tools in the field during the time stated.

Stephen M. Abstract

Signature of reference

5/8/13

Date

RECEIVED

SEP 19 2013 ELECTRICAL DIVISION

---

---

# International Brotherhood of Electrical Workers

LOCAL UNION NO. 269

670 WHITEHEAD ROAD  
TRENTON, NJ 08648



PHONE: 609-394-8129  
FAX: 609-599-2998

**Jeremy R Benjamin**  
**Card # 7481973**

7/20/2008 – 03/29/2013

Voacolo Electric  
65 Patterson Ave  
Trenton, NJ 08610  
609-586-4166

04/08/2013 -

H.B. Frazer Company  
514 Shoemaker Rd  
King of Prussia, PA 19406  
610-768-0400

Stephen M. Aldrich  
Stephen M. Aldrich-Business Manager

Rachel A. Chamberlain

9/12/13

**Rachel Ann Chamberlain**  
**Notary Public Of New Jersey**  
**My Commission Expires 7/25/2016**

RECEIVED

SEP 19 2013

ELECTRICAL  
DIVISION



The Trustees  
of



*The National Joint Apprenticeship and Training Committee*

for the  
INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS.

and the  
NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION

upon the Recommendation of the  
Trenton Electrical

JOINT APPRENTICESHIP AND TRAINING COMMITTEE

do hereby present this diploma to

**Jeremy Benjamin**

*In recognition of satisfactory completion of their indenture, as indicated by acquiring the minimum number of on-the-job hours, related studies and/or classroom training; thereby accomplishing a degree of knowledge and skill level which is mastered only by those who attain the goals and standards set forth by this Industry. The above named graduate is therefore worthy and deserving of the Internationally Recognized classification of*

**Journeyman Wireman**

*which is herewith conferred as acknowledged by the signatures of the Trustees  
on this first of July in the year 2013*

RECEIVED  
SEP 19 2013  
ELECTRICAL  
DIVISION

*Erwin D. Hill*  
President, IBEW

*John M. Gian*  
Executive Vice President & CEO, NECA



*[Signature]*  
JATC Chairman

*[Signature]*  
JATC Secretary

## License Information

[Return to Search Results](#)

Name: JOSEPH J VOACOLO

Address: WEST WINDSOR,NJ

Profession/License Type: Electrical Contractors,Electrical Contractor

License No: 34EI01461800

License Status: Active

Issue Date: 11/3/1999

Expiration Date: 3/31/2015

For more information contact the New Jersey State Board of Examiners of Electrical Contractors  
(973)504-6410

NJ Licensing requirements

### Electrical Contractor's License

You need a license to do electrical work in New Jersey. To apply for an electrical contractor's license, contact:



#### Board of Examiners of Electrical Contractors

124 Halsey St., 6th Floor

P.O. Box 45006

Newark, NJ 07101

(973) 504-6410

<http://www.state.nj.us/lps/ca/nonmedical/electrical.htm>

The Board does require you to pass an exam to get a license. To take the exam you must be over the age of 21, have a high school diploma or equivalent, and one of the following:

- five years experience working with tools to install, alter or repair electrical wiring for light, heat or power
- completion of a four-year Board-approved apprenticeship program and one year of Board-approved work experience
- completion of 8,000 hours of experience working with tools to install, alter or repair electrical wiring for light, heat or power and 576 hours related classroom instruction
- a bachelor's degree in electrical engineering and two years of Board-approved work experience

The Board will review your application and if you're eligible they'll send you information on the exam they require. Prometric gives the exam. For information on the exam or scheduling, you can contact Prometric at:

RECEIVED

OCT 01 2013

ELECTRICAL  
DIVISION



**Prometric**

1260 Energy Lane

St. Paul, MN 55108

(800) 626-0750

<http://www.prometric.com/newjersey>

The electrical contractor exam has three parts -- one on business and law, one on the trade, and one on alarm systems. The business and law exam is open book with 50 multiple choice questions. It lasts two hours.

 **Electrician's license fees:** It will cost you \$100 to file an application for a license. The business and law exam will cost you \$50, the trade exam is \$90, and the alarm systems exam is \$85. All fees are nonrefundable. You'll also have to pay \$5 to rent the NEC book at the exam.

The Board issues licenses every three years. Your license will cost you \$50 to \$150, depending on when you get it during the three year period.

Before doing any business in New Jersey you must post a bond to the state for \$1,000. You must also carry \$300,000 property damage and bodily injury insurance and \$300,000 combined property damage and bodily injury insurance.

RECEIVED

OCT 01 2013

ELECTRICAL  
DIVISION



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

Date Mailed from BCC: 10/29/2013

Jeremy R. Benjamin



Document E-13-70  
Exam Applicant Review

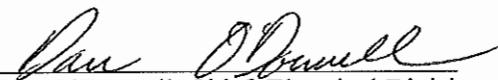
**NOTICE OF MICHIGAN ADMINISTRATIVE ELECTRICAL BOARD MEETING**

You are hereby notified that in accordance with the Administrative Procedures Act, 1969 PA 306, MCL 24.201 *et seq.*, and the Electrical Administrative Act being 1956 PA 217 MCL 338.881 *et seq.*, you are scheduled to appear before the Michigan Electrical Administrative Board on:

Date: November 7, 2013  
Time: 9:30 a.m.  
Location: Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes  
2501 Woodlake Circle, Conference Room 3  
Okemos, MI 48864

This notice is to provide you the opportunity to provide testimony to the board regarding your experience and eligibility to sit for the journeyman electrician exam. If you wish to offer any document(s) into evidence, you must file the documentation with the Electrical Division prior to the meeting or bring fifteen (15) copies of the information you wish to enter for the board's consideration. In the event you are unable to attend the meeting or you choose not to appear before the board, please contact the Electrical Division in advance of the meeting. In the event that you fail to appear at the meeting as scheduled, a decision may be entered in your absence.

Accompanying this notice is a report outlining our findings and recommendation based upon the Electrical Administrative Act being 1956 PA 217 MCL and the documentation you have provided at the time of mailing. Any questions regarding this matter may be directed to the Electrical Division at (517) 241-9320.

  
Dan O'Donnell, Chief, Electrical Division

10-29-2013  
Date

*Providing for Michigan's Safety in the Built Environment*

Exam Applicant Review  
Jeremy R. Benjamin  
Document No. E-13-70  
November 7, 2013  
Page 2 of 4

**PROOF OF SERVICE**

I hereby state, to the best of my knowledge, information, and belief, that a copy of the foregoing document was served on this date upon all parties and/or attorneys of record in this matter by email to those parties employed by the State of Michigan and by first class mail to the remaining parties at their respective addresses as disclosed below.

*Toni Nelson*

\_\_\_\_\_  
Toni Nelson, Secretary  
Electrical Division  
Bureau of Construction Codes

*10-29-2013*

\_\_\_\_\_  
Date

Jeremy R. Benjamin

  
BCC Administration



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

November 7, 2013

E-13-71

TO: Members of the State Electrical Administrative Board  
FROM: Dan O'Donnell, Chief, Electrical Division  
SUBJECT: Journeyman electrician examination application

**APPLICANT REPRESENTATIVE:**

Jalloul Montacer

**PROJECT:**

N/A

**AUTHORITY:**

The Michigan Electrical Administrative Act, 1956 PA 217 of the Michigan Compiled Laws.

The Electrical Administrative Board General Rules

**REQUEST:**

Request to petition the Electrical Administrative Board to sit for the journeyman electrician examination.

**APPLICABLE RULE:**

1956 PA 217, MCL 338.883a Sec. 3a. (c), MCL 338.883d Sec. 3d. (1), (a), (b), (c), (d), Administrative Board General Rules R338.1005a Rule 5a. (1), (2), (3), R338.1006a Rule 6a (1), (3), (4).

**FINDINGS:**

Mr. Montacer submitted an application to sit for the journeyman electrician examination. The information that Mr. Montacer has provided indicates that he has

*Providing for Michigan's Safety in the Built Environment*

attained 8880 hours of electrical experience under the supervision of a licensed master electrician in the State of Connecticut. Mr. Montacer also submitted information that indicates that he completed electrical classroom training and that he is currently licensed as an unlimited journeyman electrician in the State of Connecticut.

**RECOMMENDATION:**

In accordance with the acts and rules listed above staff concludes that Mr. Montacer meets the requirements to sit for the State of Michigan journeyman electrician examination and recommends that the board approve his application.

**Application for Journeyman Electrician Examination**  
 Michigan Department of Licensing and Regulatory Affairs  
 Bureau of Construction Codes / Electrical Division  
 P.O. Box 30255, Lansing, MI 48909  
 517-241-9320  
 www.michigan.gov/bcc

Agency Use Only

**Examination Fee: \$100.00 (nonrefundable)**

|   |  |
|---|--|
| Authority: 1956 PA 217<br>Completion: Mandatory<br>Penalty: Examination will not be given | LARA is an equal opportunity employer/program. Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. |
|---|--|

**Instructions:** To be eligible to make application for and take this examination an applicant shall meet the following criteria:

- Complete and sign application. Type or print in ink.
- Application and fee must be received 20 business days prior to the examination date.
- Applicant must not be less than 20 years of age.
- Provide **original notarized** documentation from present or former employers to the effect that the applicant has not less than 8,000 hours of practical experience obtained over a period of not less than 4 years related to electrical construction or electrical maintenance of buildings under direct supervision of a person licensed pursuant to the act. Documentation must include the beginning (month, day, year) to ending (month, day, year) dates of employment. The 8,000 hours of practical work experience over 4 years must be attained prior to the deadline date for submitting documentation. **Notarized**, original documentation must be on employers' letterhead stationery and provide dates of employment and hours worked under licensed supervision and signed by the qualified master electrician.
- Enclose a check made payable to the State of Michigan.
- Mail completed application, required documents, and payment to the address listed above.

**Information**

Applicants are permitted one examination for the \$100.00 fee. Upon achieving a minimum passing score of 75% or higher, the applicant will be billed \$40.00 for the journeyman electrician license prior to issuance of the license. Failure of examination 2 times within 2 years requires 1 year waiting period from the date of the second failure and proof of successful completion of a course on code, electrical fundamentals or theory to be eligible for reexamination. Examination fee is forfeited upon failure to appear for scheduled examination unless written explanation is received within 10 business days of the examination.

**Examination Eligibility of Applicants From Other States or Countries**

A person who is licensed as a journeyman electrician in another state or country may qualify for examination upon determination by the board that the license was obtained by the person through substantially the same or equal requirements as those of the state of Michigan in accordance with the provisions of section 3a of the act.

**Applicant Information**

|   |                     |                             |   |
|---|---------------------|-----------------------------|---|
| NAME (Last Name, First Name, Middle Initial)<br>MONTACER, JALLOUL |                     | DATE OF BIRTH<br>[REDACTED] | LAST 4 DIGITS OF SOCIAL SECURITY NUMBER'<br>XXX-XX-[REDACTED] |
| ADDRESS<br>[REDACTED]   | CITY<br>[REDACTED]  | TOWNSHIP                    |   |
| COUNTY<br>[REDACTED]  | STATE<br>[REDACTED] | ZIP CODE<br>[REDACTED]      | TELEPHONE NUMBER (include Area Code)<br>[REDACTED]            |

Have you previously taken this examination?  Yes  No

If examination was not administered by the State Electrical Division provide the licensing entity:

City of \_\_\_\_\_ Township of \_\_\_\_\_

**Examination Site**

Examinations are given at the sites listed below. Refer to the enclosed "Schedule of Electrical Board Meetings and Licensing Examinations" for examination dates. Please check below the site you wish to be examined at and indicate a preference of examination month. If approved for examination, an admission card will be mailed to you approximately 10 days prior to the examination date. If the examination you have selected is full, you will be scheduled for the next available examination at your preferred site.

|   |                        |
|---|------------------------|
| <u>Preferred Site</u>                       | <u>Preferred Month</u> |
| <input checked="" type="checkbox"/> Lansing | <u>NOVEMBER</u>        |
| <input type="checkbox"/> Escanaba           | _____                  |

OCT 10 2013  
 ELECTRICAL DIVISION

If you have a disability and require an accommodation to take the examination, please submit written documentation from a professional (education professional, doctor, psychologist, psychiatrist) to certify that your disabling condition requires the requested test accommodation. Forms are available from this office.

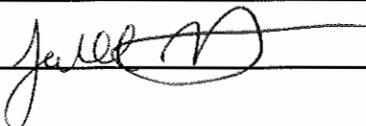
\*This information is confidential. Disclosure of confidential information is protected by the Federal Privacy Act.

**Experience Record (attach additional sheets if necessary)**

|  |                         |   |                          |
|--|-------------------------|---|--------------------------|
| NAME OF CURRENT EMPLOYER<br><b>ELECTRICAL CONTRACTORS INC</b>  |                         | DATES OF EMPLOYMENT (MM/DD/YY)<br>BEGINNING: <b>08/18/08</b> ENDING: <b>PRESENT</b> |                          |
| ADDRESS<br><b>3510 MAIN STREET</b>   | CITY<br><b>HARTFORD</b> | STATE<br><b>CT</b>  | ZIP CODE<br><b>06120</b> |
| TYPE OF WORK PERFORMED<br><b>THE INSTALLATION OF ANY &amp; ALL APPARATUS &amp; EQUIPMENT ASSOCIATED WITH MAJOR ELECTRICAL CONSTRUCTION AND TRAFFIC PROJECTS.</b> |                         |   |                          |
| NAME OF EMPLOYER   |                         | DATES OF EMPLOYMENT (MM/DD/YY)<br>BEGINNING: ENDING:                                |                          |
| ADDRESS  | CITY                    | STATE<br><b>CT</b>  | ZIP CODE                 |
| TYPE OF WORK PERFORMED   |                         |   |                          |

**Certification and Signature of Applicant**

I certify the information provided is true and accurate to the best of my ability and I have the experience required for this examination. I further understand fraud or deceit in obtaining a license is grounds for administrative action in accordance with the act.

|  |                          |
|--|--------------------------|
| APPLICANT'S SIGNATURE<br> | DATE<br><b>10-1-2013</b> |
|--|--------------------------|

**Agency Use Only**

Approved for Exam  Yes  No

Validation Area

| Date of Exam | Score | Absent | Date of Exam | Score | Absent |
|--------------|-------|--------|--------------|-------|--------|
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |

Tran Info:103 18986636-1 10/07/13  
 Chk#: 3314 Amt: \$100.00  
 ID: JALLOU MONTACER

Date Approved by EAB \_\_\_\_\_

RECEIVED  
 OCT 10 2013  
 ELECTRICAL  
 DIVISION

# Electrical Contractors, Inc.

STATE LIC. #102800  
3510 MAIN ST. HARTFORD, CONNECTICUT 06120  
(860) 549-2822 FAX (860) 549-7948  
e-mail: Info@EClncorporated.com  
AA / E.O.E.

October 1, 2013

Applicant: Jalloul Montacer

Date of employment: 8/18/08 to present

Total regular hours: 8,880

Supervision of apprentice work: Wendell Bailey, Stephane Mathieu,  
James Howard, and Lou Bona Jr.

Type of work performed in 1<sup>st</sup> year of apprenticeship:

Jalloul worked in our construction division at a new school installing conduit, m/c cable, lights, switches, and working with the masons on block work. He also worked within our service division on various task and under our traffic division\*.

Type of work performed in 2<sup>nd</sup> year of apprenticeship:

Again under our construction division at yet another school. Then Back into our traffic division\*.

Type of work performed in 3<sup>rd</sup> year of apprenticeship:

Jalloul installed solar panels, then continued on in our traffic division\*.

Type of work performed in 4<sup>th</sup> year of apprenticeship:

During his final year the concentration was the traffic division\*.

Supervising master electrician's signature:

*Louis J. Bona, Jr.*

*Pamela Backstrom*

**PAMELA BACKSTROM**  
**NOTARY PUBLIC**  
MY COMMISSION EXPIRES NOVEMBER 30, 2017

RECEIVED

OCT 1 0 2013

ELECTRICAL  
DIVISION

RECEIVED

ELECTRICAL  
DIVISION

\*The description of the work performed within the traffic division is on separate page.

# *Electrical Contractors, Inc.*

STATE LIC. #102800  
3510 MAIN ST. HARTFORD, CONNECTICUT 06120  
(860) 549-2822 FAX (860) 549-7948  
e-mail: [Info@ECIncorporated.com](mailto:Info@ECIncorporated.com)  
AA / E.O.E.

Within Electrical Contractors, Inc.'s (ECI's) Traffic Division, Jalloul Montacer has performed installations, on numerous State of Connecticut Department of Transportation contracts and various municipal projects, which includes, but is not limited to the installation of communication cable, fiber optic cable, IMSA control cable, emergency pre-emption systems, siren detection systems, loop detector sawcut installations, etc..., and has been exposed to all aspects of electrical/lineman work.

Mr. Montacer has gained knowledge and experience installing Naztec and Peek controllers and cabinets and can effectively install an 8-phase control cabinet, troubleshoot any malfunctions, and, as an electrician, perform traffic signalization installations, from the ground (electrical conduit, pre-cast structures, handholes) to overhead pole installations (camera video detection, microwave detector, pedestrian push buttons, wireless detection, pedestrian signals, steel span poles, mast arm assemblies).

Under the guidance of licensed electricians, Mr. Montacer has become a competent journeyman/lineman and has also installed highway illumination and site lighting circuitry, in accordance with The Public Utilities Regulatory Authority (PURA) and the National Electric Code (NEC).

RECEIVED

OCT 10 2013

ELECTRICAL  
DIVISION

**STATE OF CONNECTICUT**  
DEPARTMENT OF CONSUMER PROTECTION

ELECTRICAL UNLIMITED CONTRACTOR

LOUIS J BONA



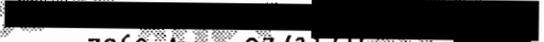
| LIC. / REG NO. | EFFECTIVE            | EXPIRES    |
|----------------|----------------------|------------|
| ELC.0102800-E1 | 10/01/2013           | 09/30/2014 |
| SIGNED         | <i>Louis J. Bona</i> |            |

**COMMONWEALTH OF MASSACHUSETTS**  
DIVISION OF PROFESSIONAL LICENSURE

BOARD OF  
ELECTRICIANS

ISSUES THE FOLLOWING LICENSE AS  
REGISTERED MASTER ELECTRICIAN

ELECTRICAL CONTR INC  
LOUIS J BONA



|                |                 |               |
|----------------|-----------------|---------------|
| 7960 A         | 07/31/16        |               |
| LICENSE NUMBER | EXPIRATION DATE | SERIAL NUMBER |



*Louis J. Bona*  
LICENSEE SIGNATURE

RECEIVED

OCT 10 2013

ELECTRICAL  
DIVISION



# DEPARTMENT OF CONSUMER PROTECTION

Select Language Translation Disclaimer Home About Us Programs & Services Forms News Room Contact Us

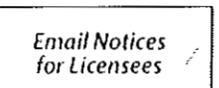
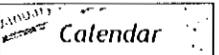
**CONSUMERS    BUSINESSES    LICENSES    DIVISIONS    LAWS & REGULATIONS    BOARDS & COMMISSIONS**



William M. Rubenstein  
Commissioner

## Electrical License

Awareness & Prevention  
Complaint Center  
Online Services  
Useful Links



### Prerequisites:

- Contractors provide copy of journeyperson license.
- Journeyperson* - Completion of the apprenticeship program administered by the Connecticut Department of Labor, Apprentice Training Division or Electrical Work Examining Board approval of documented equivalent experience and training.

### Required Documentation:

- Journeyperson* - Apprenticeship Completion Letter, or for those seeking consideration of equivalent experience and training, signed notarized statements from occupational related employers detailing dates and duties of employment, totaling a minimum of 8,000 hours and proof of equivalent trade-related education authored by a professional educator qualified to offer such analysis. A list of the Connecticut Apprenticeship required courses. Detailed information on the these required courses can be obtained by contacting the Department of Education.

### Applications, Forms & Other:

- [Electrical Contractor - Candidate Information Bulletin & Application](#)
- [Electrical Journeyperson - Candidate Information Bulletin & Application](#)
- [Retiree Status License Application](#)
- [Application for Restoration from Retiree Status](#)

### To Reach Us:

Within Hartford Area and Outside Connecticut  
860-713-6100

Elsewhere in Connecticut  
800-842-2649

[Hours, Location & Directions](#)

### Application Fee:

- Contractor \$150.00; Journeyperson \$90.00

### Other Information:

- [Electrical Work Examining Board](#)
- [Electrical License Types and Scope of Work](#)

### Email Address:

[DCP.occupationalprofessional@ct.gov](mailto:DCP.occupationalprofessional@ct.gov)

RECEIVED

OCT 10 2013

ELECTRICAL DIVISION

[Back to Licenses, Permits and Registration Forms](#)

# Lincoln Technical Institute

New Britain



Connecticut

*This certifies that*  
**Jalloul Montacer**

*has satisfactorily completed the program in*  
**Electrical**

*and is therefore awarded this*

## Diploma

*given this* 19<sup>th</sup> *day of* March, 2009

  
\_\_\_\_\_  
Director of Education

  
\_\_\_\_\_  
Executive Director

RECEIVED

OCT 10 2013

ELECTRICAL  
DIVISION

# Lincoln Technical Institute

New Britain ♦ Hamden ♦ Shelton ♦ Cromwell  
Connecticut

## Certification of Hours For Evening Electrical Graduates

Be it known that

**Jalloul Montacer**

is a graduate of Lincoln Technical Institute's  
**Evening Electrical Program**

As such, and pursuant to the authority granted by the State of  
Connecticut, Department of Education Apprenticeship Program, the  
following rights and opportunities are conveyed therewith.

720 Classroom Hours

300 On-the-job Hours for E-2 eligibility

90 On-the-job Hours for L-6 and C-6 eligibility

RECEIVED

OCT 10 2013

ELECTRICAL  
DIVISION

*Matthews Meek*  
Registrar

*2/19/2013*  
Date of Issue

STATE OF CONNECTICUT ♦ DEPARTMENT OF CONSUMER PROTECTION

Be it known that

**JALLOUL MONTACER**



has been certified by the Department of Consumer Protection as a licensed

**ELECTRICAL UNLIMITED JOURNEYPERSON**

License # **ELC.0200121-E2**

Effective: 10/01/2013

Expiration: 09/30/2014



A handwritten signature in black ink, appearing to read "William M. Rubenstein".

William M. Rubenstein, Commissioner

ELECTRICAL  
DIVISION

OCT 10 2013

RECEIVED



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

Date Mailed from BCC: 10-29-2013

Jalloul Montacer  


Document E-13-71  
Exam Applicant Review

**NOTICE OF MICHIGAN ADMINISTRATIVE ELECTRICAL BOARD MEETING**

You are hereby notified that in accordance with the Administrative Procedures Act, 1969 PA 306, MCL 24.201 *et seq.*, and the Electrical Administrative Act being 1956 PA 217 MCL 338.881 *et seq.*, you are scheduled to appear before the Michigan Electrical Administrative Board on:

Date: November 7, 2013  
Time: 9:30 a.m.  
Location: Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes  
2501 Woodlake Circle, Conference Room 3  
Okemos, MI 48864

This notice is to provide you the opportunity to provide testimony to the board regarding your experience and eligibility to sit for the journeyman electrician exam. If you wish to offer any document(s) into evidence, you must file the documentation with the Electrical Division prior to the meeting or bring fifteen (15) copies of the information you wish to enter for the board's consideration. In the event you are unable to attend the meeting or you choose not to appear before the board, please contact the Electrical Division in advance of the meeting. In the event that you fail to appear at the meeting as scheduled, a decision may be entered in your absence.

Accompanying this notice is a report outlining our findings and recommendation based upon the Electrical Administrative Act being 1956 PA 217 MCL and the documentation you have provided at the time of mailing. Any questions regarding this matter may be directed to the Electrical Division at (517) 241-9320.

  
Dan O'Donnell, Chief, Electrical Division

10/29/2013  
Date

*Providing for Michigan's Safety in the Built Environment*

Exam Applicant Review  
Jalloul Montacer  
Document No. E-13-71  
November 7, 2013  
Page 2 of 4

**PROOF OF SERVICE**

I hereby state, to the best of my knowledge, information, and belief, that a copy of the foregoing document was served on this date upon all parties and/or attorneys of record in this matter by email to those parties employed by the State of Michigan and by first class mail to the remaining parties at their respective addresses as disclosed below.

*Toni Nelson*

\_\_\_\_\_  
Toni Nelson, Secretary  
Electrical Division  
Bureau of Construction Codes

*10-29-2013*

\_\_\_\_\_  
Date

Jalloul Montacer



BCC Administration



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

November 7, 2013

E-13-72

TO: Members of the State Electrical Administrative Board

FROM: Dan O'Donnell, Chief, Electrical Division

SUBJECT: Master electrician examination application

**APPLICANT REPRESENTATIVE:**

Robert W. Dombrowski

**PROJECT:**

N/A

**AUTHORITY:**

The Michigan Electrical Administrative Act, 1956 PA 217 of the Michigan Compiled Laws.

The Electrical Administrative Board General Rules

**REQUEST:**

Request to petition the Electrical Administrative Board to sit for the master electrician examination.

**APPLICABLE RULE:**

1956 PA 217 MCL, 338.883a Sec 3a. (c), MCL 338.883c Sec. 3c. (1) a,b,c,d,e, and Electrical Administrative Board General Rules, R338.1004a Rule 4a. (1), (a), (b), (2), 338.1006a Rule 6a. (1), (2)

**FINDINGS:**

Mr. Dombrowski submitted an application to sit for the master electrician examination. Mr Dombrowski submitted documentation that indicates that he has attained 4368 hours of electrical experience under the supervision of master electricians while employed by

*Providing for Michigan's Safety in the Built Environment*

LARA is an equal opportunity employer

Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.

P.O. BOX 30254 • LANSING, MICHIGAN 48909

www.michigan.gov/bcc • Telephone (517) 241-9302 • Fax (517) 241-9570

the Flour Government Group in Afghanistan. Mr. Dombrowski passed the State of Michigan journeyman electrician examination and was issued his license on April 22, 2008.

**RECOMMENDATION:**

In accordance with the acts and rules listed above staff concludes that Mr. Dombrowski meets the requirements to sit for the State of Michigan master electrician examination and recommends that the board approve his application.

**Application for Master Electrician Examination**  
 Michigan Department of Licensing and Regulatory Affairs  
 Bureau of Construction Codes / Electrical Division  
 P.O. Box 30255, Lansing, MI 48909  
 517-241-9320  
 www.michigan.gov/bcc

Agency Use Only

6218144

**Examination Fee: \$100.00 (nonrefundable)**

|   |  |
|---|--|
| Authority 1956 PA 217<br>Completion Mandatory<br>Penalty: Examination will not be given | LARA is an equal opportunity employer/program. Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. |
|---|--|

**Instructions:**

- See back of application for qualifications for examination.
- Complete and sign application. Type or print in ink.
- Application and fee must be received 20 business days prior to the examination date.
- Applicant must not be less than 22 years of age.
- Provide *original notarized statements from current and past employers documenting required experience with this application. Statements must be on employers' letterhead stationery and include the dates and hours of employment (see qualifications on back of application) and names and license numbers of supervising master electricians. Be sure that all statements are notarized.*
- Enclose a check made payable to the State of Michigan.
- Mail completed application, required documents, and payment to the address listed above.

Tran Info: 103 18797805-1 07/16/13  
 Chk#: 1071 Amt: \$100.00  
 ID: LESLIE DOMBROWSKI

**Applicant Information**

|   |  |   |   |
|---|--|---|---|
| NAME (Last Name, First Name, Middle Initial)<br>Dombrowski, Robert, W |  | DATE OF BIRTH<br>[REDACTED]                 | LAST 4 DIGITS OF SOCIAL SECURITY NUMBER*<br>XXX-XX-[REDACTED] |
| ADDRESS<br>[REDACTED]   | CITY<br>[REDACTED]                           | TOWNSHIP                                    |   |
| COUNTY<br>[REDACTED]  | STATE<br>[REDACTED]                          | ZIP CODE<br>[REDACTED]                      | TELEPHONE NUMBER (Include Area Code)<br>[REDACTED]            |
| JOURNEYMAN LICENSE NUMBER<br>6334123                                  | NUMBER OF YEARS JOURNEYMAN LICENSE HELD<br>5 | LICENSING JURISDICTION<br>State of Michigan |   |

Have you previously taken this examination?  Yes  No

If examination was not administered by the State Electrical Division provide the licensing entity:

City of \_\_\_\_\_ Township of \_\_\_\_\_

**Examination Site**

Examinations are given at the sites listed below. Refer to the enclosed "Schedule of Electrical Board Meetings and Licensing Examinations" for examination dates. Please check below the site you wish to be examined at and indicate a preference of examination month. If approved for examination, an admission card will be mailed to you approximately 10 days prior to the examination date. If the examination you have selected is full, you will be scheduled for the next available examination at your preferred site.

Preferred Site                      Preferred Month  
 Lansing                      — May 2014  
 Escanaba                      \_\_\_\_\_

JUL 19 2013

ELECTRICAL

If you have a disability and require an accommodation to take the examination, please submit written documentation from a professional (education professional, doctor, psychologist, psychiatrist) to certify that your disabling condition requires the requested test accommodation. Forms are available from this office.

**Certification and Signature**

I certify the information is true and accurate to the best of my ability and I have the experience required for this examination. I further understand falsification of any statement is cause for rejection of this application or revocation of license, if issued. If granted a master's license, I swear I will not represent as master more than one person, firm, or corporation and if I resign as master I will notify the electrical administrative board within 10 business days.

|   |                       |
|---|-----------------------|
| APPLICANT'S SIGNATURE<br><i>Robert Dombrowski</i> | DATE<br>July 14, 2013 |
|---|-----------------------|

\*This information is confidential. Disclosure of confidential information is protected by the Federal Privacy Act.

July 14, 2013

Robert Dombrowski Journeyman Electrician



Michigan Department of Licensing and Regulatory Affairs  
P.O. Box 30255  
Lansing, MI 48909

To the Michigan Electrical Board,

Per my discussion with Evie at The Michigan Electrical Division Department in Mid-May of 2013, I have enclosed the required information needed as verification of hours while serving in the capacity of a Journeyman Electrician/U.S. Government Contractor in Afghanistan.

In my field as a Journeyman Electrician from March of 2012 to present date, I have accumulated greater than 4,368 hours. To verify my employment with Fluor Government Group, you may contact the H.R. Dept. in Greenville, South Carolina at 1 (864) 281-5150

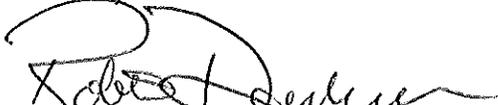
With this information made available to the Michigan Department of Licensing and Regulatory Affairs, it is my desire to apply and test for the Master Electrician Licensing for the State of Michigan in the Spring of 2014.

Please advise if any additional information and/or requirements are needed. This information will be forwarded to me in Afghanistan. Or if your process is emailing, please send to the above email address.

In closing please note I am requesting information in advance because, I will be in Afghanistan till early next year of 2014.

Your assistance in this matter is greatly appreciated

Thank you in advance.

  
Robert W. Dombrowski

RECEIVED

JUL 19 2013

ELECTRICAL  
DIVISION

## RECORD OF EMPLOYMENT HISTORY

DATE: 28 May, 2013

To whom it may concern:

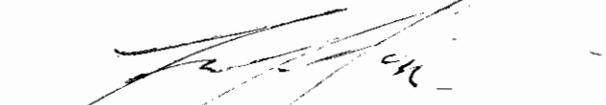
Please be advised that Mr. Robert Dombrowski is employed by Fluor Government Group as a Journeyman Electrician on Forward Operating Base (FOB) Shank in Logar Province Afghanistan.

He has been employed from March of 2012 to present. During that period he functioned as a Lead Electrician on commercial and preventative maintenance projects. He worked 7 days a week, 12 hours a day for 84 hours a week and accumulated 4,368 hours.

Signed,



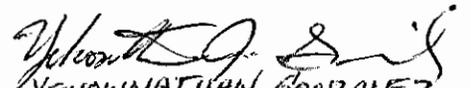
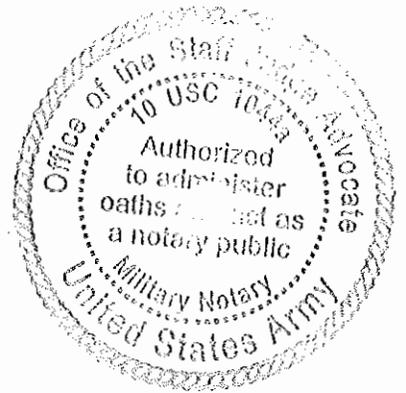
Abe Armer  
Electrical Supervisor, FOB Shank  
State of Texas Master Electrician License # 201111



Francis Wilson  
Electrical Superintendent, Task Force Vanguard  
State of Iowa Master Electrician License #EL-9890-MA



William Johnson  
Master Electrician, FOB Shank  
State of Texas Master Electrician License # 15691



YEHOWNATHAN GONZALEZ  
SERGEANT, U.S. ARMY (A)  
PARALEGAL NCO

IN THE ARMED FORCES OF THE UNITED STATES  
1. FORWARD OPERATION BASE SHANK  
AFGHANISTAN APO AE 09364

COMMISSION EXPIRES  
25 OCT 2014  
RECEIVED

Subscribed, sworn to and acknowledged before me by ABE ARMER / FRANCIS WILSON / WILLIAM JOHNSON  
known to me to be a member of the Armed Forces of the United States serving  
Active Duty on 28 MAY 2013. This acknowledgement is executed in my  
official capacity under the authority granted by Title 10, United States Code,  
section 1044a, which also states that no seal is required on this acknowledgment.

JUL 19 2013

ELECTRICAL  
DIVISION

## RECORD OF EMPLOYMENT HISTORY

DATE: 30 May, 2013

To whom it may concern:

Please be advised that Mr. Robert Dombrowski is employed by Fluor Government Group as a Journeyman Electrician on Forward Operating Base (FOB) Shank in Logar Province Afghanistan.

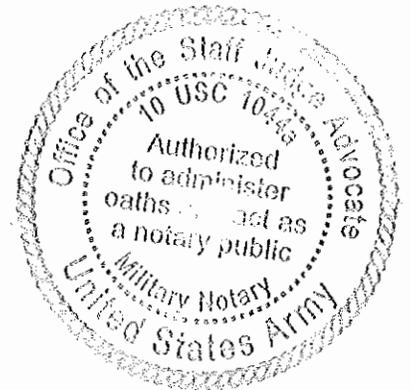
He has been employed from March of 2012 to present. During that period he functioned as a Lead Electrician on commercial and preventative maintenance projects.

Signed *Michael McKeever*

Michael McKeever  
Fluor, Site Supervisor  
FOB Shank Afghanistan  
[REDACTED]

WITH THE ARMED FORCES OF THE UNITED STATES  
AT FORWARD OPERATING BASE SHANK  
AFGHANISTAN APO AE 09364

Subscribed, sworn to and acknowledged before me by MICHAEL L. MCKEEVER  
who is known to me to be a member of the Armed Forces of the United States serving  
in Active Duty, on 30 MAY 2013. This acknowledgement is executed in my  
official capacity under the authority granted by Title 10, United States Code  
section 1044a, which also states that no seal is required on this acknowledgment.



*Yehowathan J. Gonzalez*  
YEHOWNATHAN J. GONZALEZ  
SERGEANT, U.S. ARMY (AC)  
PARALEGAL NCO  
MILITARY NOTARY

RECEIVED

JUL 19 2013

ELECTRICAL  
DIVISION

COMMISSION EXPIRES:  
25 OCT 2014

WILLIAM E. JOHNSON

MASTER ELECTRICIAN

LICENSE NUMBER 15691  
EXPIRES 04/22/2014



The person named on this card may perform the duties within the scope of work authorized by applicable law through the expiration date shown on the front of the card.



*William H. Kuitz, Jr.*  
William H. Kuitz, Jr.  
Executive Director

Texas Department of Licensing and Regulation

[www.license.state.tx.us](http://www.license.state.tx.us)

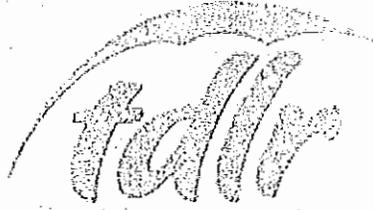
RECEIVED

JUL 19 2013

ELECTRICAL  
DIVISION

ABRAHAM B ARMER

MASTER ELECTRICIAN



LICENSE NUMBER 201111  
EXPIRES 06/18/2014

TEXAS DEPARTMENT OF LICENSING AND REGULATION

The person named on this card may perform  
the duties within the scope of work  
authorized by applicable law through the  
expiration date shown on the front of the card.



William H. Kuntz, Jr.  
Executive Director

Texas Department of Licensing and Regulation

[www.license.state.tx.us](http://www.license.state.tx.us)

Iowa Electrical Examining Board

FRANCIS WILSON

Master Class A Electrician

EL-9890-MA

Expiration

11/11/2013

11/11/2013  
11/11/2013  
11/11/2013  
11/11/2013

# TEXAS DEPARTMENT OF LICENSING AND REGULATION

PO Box 12157 · Austin, Texas 78711 · (800) 803-9202 · (512) 463-6599 · FAX (512) 475-2871  
www.license.state.tx.us · CS.electricians@license.state.tx.us

## MASTER ELECTRICIAN LICENSE APPLICATION INSTRUCTIONS

This completed application is required prior to scheduling your Texas examination. If your application is approved, we will contact the exam provider (PSI) and they will send you a postcard to proceed with scheduling your examination. The exam fee will be paid directly to PSI.

### GENERAL INSTRUCTIONS

The application must be completed and signed by the applicant. An application is not considered complete and will not be processed until all items have been submitted as required. All information provided must be typed or printed in black ink using upper case letters. Attachments must be submitted on separate pieces of single-sided, 8½" x 11" paper. Please use a paperclip to fasten all pages together, with the check or money order on top. **Do not use staples.**

If one check will be used to pay for multiple applications, a **Combined Check Worksheet** must be completed and submitted with the applications and payment. The Combined Check Worksheet is available on the Department's website.

### PAGE 1 – GENERAL INFORMATION

NAME – Please write your name in the spaces provided. (Last, First, Middle)

SUFFIX – Examples of a suffix include Jr., Sr., and II. (MR is not a suffix.)

DATE OF BIRTH – Write the two digit numeric equivalent (ex: 03 for March) for the month of your birth, followed by the two digit day and the four digit year. (MM/DD/YYYY)

GENDER – Write "M" for Male or "F" for Female.

SOCIAL SECURITY NUMBER – The Social Security number disclosure is required by Section 231.302 (1) of the Texas Family Code in order to obtain a license. Your social security number is subject to disclosure to an agency authorized to assist in the collection of child support payments. For more information regarding child support payments, contact the Texas Attorney General at:

www.oag.state.tx.us/child/index or call (512)460-6000 or (800)252-8014.

MAILING ADDRESS – This is the address to which the Department will mail your correspondence. Indicate the number and street, or post office box of your mailing address. Use of the zip plus-4 is not required, but it helps the postal service direct mail more efficiently and accurately.

PHYSICAL ADDRESS – This is the physical location of your residence. Do not use a post office box for this address.

TELEPHONE NUMBER – Write the telephone number, including area code, where we can reach you during the day. This may be your office phone number where we can leave a message.

E-MAIL – Please provide your e-mail address. The Department will add your address to the electricians' e-mailing list, which provides information from the Department on matters affecting electricians. Your e-mail address is confidential pursuant to the Texas Public Information Act, and the Department will not share it with the public.

FAX NUMBER - Write the fax number, including area code where you can receive faxes.

CONVICTION OF CRIMINAL OFFENSE – Indicate if you have ever been convicted of a criminal offense. If yes, complete and attach the Criminal History Questionnaire for each conviction. This form can be obtained from the TDLR website.

**LICENSE SANCTIONS** – Indicate if you have ever had an occupational license, certification, or registration suspended, revoked, or denied in any state, county or municipality. If you have, complete and attach the Disciplinary Action Questionnaire for each sanction. This form can be obtained from the TDLR website.

## LICENSE REQUIREMENTS

You must have held a Journeyman license for at least two years.

You must have at least 12,000 hours of on-the-job training under the supervision of a Master Electrician prior to taking the exam. When your experience has been approved, PSI will contact you on how to schedule your exam.

The employment history portion of the application must include the full 12,000 hours.

An Experience Verification Form is required for each employer and must be signed by the supervising Master Electrician.

If you are applying for a Master Electrician reciprocal license, please see the "Master Electrician License Application by Reciprocity Form". THIS APPLICATION is not required for reciprocity.

## STATEMENT OF APPLICANT

Before you sign, carefully read the statement at the bottom of the application. Be aware that information provided on this application and any attachments is subject to audit. Providing false information may result in revocation of this license and the imposition of administrative penalties.

## EMPLOYMENT HISTORY

- If you are applying for licensure by experience and exam, you will need to complete all portions of the employment history indicating your 12,000 hours under the supervision of a Master Electrician. All areas of this document must be completed.

An Experience Verification Form or letters on company letterhead must be completed and signed by the Supervising Master Electrician. This form along with the Employment History portion of the application must coincide.

- If you are licensed as a Master electrician by a municipal or regional licensing authority, you do not need to provide any experience with this application. Include a copy of your Master electrician license issued by the municipal or regional licensing authority. You must also include the "Discontinued Municipal or Regional Licensing Program Form".

## FEE

The fee for this license is \$50. This fee is non-refundable. Please send one check or money order for the total amount due, payable to TDLR. Fees and documents should be mailed to:

TDLR  
PO BOX 12157  
AUSTIN, TEXAS 78711

PLEASE COMPLETE THE APPLICATION IN BLACK INK.  
ANY DEVIATION FROM THESE REQUIREMENTS MAY DELAY THE PROCESSING OF YOUR APPLICATION.

DOCUMENTS SUBMITTED WITH THE APPLICATION WILL NOT BE RETURNED. KEEP A COPY OF THE COMPLETED APPLICATION, ALL ATTACHMENTS AND YOUR CHECK.

## CHAPTER 103

## ELECTRICIANS AND ELECTRICAL CONTRACTORS

Referred to in §100C.2, 105.18

|         |   |        |  |
|---------|---|--------|--|
| 103.1   | Definitions.  | 103.19 | Licenses — expiration — application — fees.  |
| 103.2   | Electrical examining board created.   | 103.20 | Licensee status — employment — death.  |
| 103.3   | Terms of office — expenses — counsel.   | 103.21 | Licenses without examination — reciprocity with other states.  |
| 103.4   | Organization of the board.  | 103.22 | Chapter inapplicability.   |
| 103.5   | Official seal — bylaws.   | 103.23 | Electrical installations — subject to inspection.  |
| 103.6   | Powers and duties.  | 103.24 | State inspection — inapplicability in certain political subdivisions — electrical inspectors — certificate of qualification. |
| 103.7   | Electrician and installer licensing and inspection fund.  | 103.25 | Request for inspection — fees.   |
| 103.8   | Activities where license required — exceptions.   | 103.26 | Condemnation — disconnection — opportunity to correct noncompliance.   |
| 103.9   | Electrical contractor license.  | 103.27 | Condemnation or disconnection order — service.   |
| 103.10  | Class A master electrician license — qualifications — class B master electrician license.       | 103.28 | Certificate of safe operation — dismissal of condemnation or disconnection order.  |
| 103.10A | Inactive master electrician license.  | 103.29 | Political subdivisions — inspections — authority of political subdivisions.  |
| 103.11  | Wiring or installing — supervising apprentices — license required — qualifications.             | 103.30 | Inspections not required.  |
| 103.12  | Class A journeyman electrician license qualifications — class B journeyman electrician license. | 103.31 | State inspection procedures.   |
| 103.12A | Residential electrician and residential master electrician license — qualifications.            | 103.32 | State inspection fees.   |
| 103.13  | Special electrician license — qualifications.   | 103.33 | Condemnation or disconnection orders — appeals — disposition of orders pending appeal.                                       |
| 103.14  | Alarm installations.  | 103.34 | Appeal procedures.   |
| 103.15  | Apprentice electrician — unclassified person.   | 103.35 | Suspension, revocation, or reprimand.  |
| 103.16  | License examinations.   | 103.36 | Procedure.   |
| 103.17  | Disclosure of confidential information — criminal penalty.                                      | 103.37 | Injunction.  |
| 103.18  | License renewal — continuing education.   | 103.38 | Criminal violations.   |
|         |   | 103.39 | Civil penalty.   |

**103.1 Definitions.**

As used in this chapter, unless the context otherwise requires:

1. "Apprentice electrician" means any person who, as such person's principal occupation, is engaged in learning and assisting in the installation, alteration, and repair of electrical wiring, apparatus, and equipment as an employee of a person licensed under this chapter, and who is licensed by the board and is progressing toward completion of an apprenticeship training program registered by the office of apprenticeship of the United States department of labor. For purposes of this chapter, persons who are not engaged in the installation, alteration, or repair of electrical wiring, apparatus, and equipment, either inside or outside buildings, shall not be considered apprentice electricians.

2. "Board" means the electrical examining board created under section 103.2.

3. "Class A journeyman electrician" means a person having the necessary qualifications, training, experience, and technical knowledge to wire for or install electrical wiring, apparatus, and equipment and to supervise apprentice electricians and who is licensed by the board.

4. "Class A master electrician" means a person having the necessary qualifications, training, experience, and technical knowledge to properly plan, lay out, and supervise the

installation of electrical wiring, apparatus, and equipment for light, heat, power, and other purposes and who is licensed by the board.

5. "*Class B journeyman electrician*" means a person having the necessary qualifications, training, experience, and technical knowledge to wire for or install electrical wiring, apparatus, and equipment who meets and is subject to the restrictions of section 103.12.

6. "*Class B master electrician*" means a person having the necessary qualifications, training, experience, and technical knowledge to properly plan, lay out, and supervise the installation of electrical wiring, apparatus, and equipment who meets and is subject to the restrictions of section 103.10.

7. "*Electrical contractor*" means a person affiliated with an electrical contracting firm or business who is, or who employs a person who is, licensed by the board as either a class A or class B master electrician and who is also registered with the state of Iowa as a contractor pursuant to chapter 91C.

8. "*Farm*" means land, buildings and structures used for agricultural purposes including but not limited to the storage, handling, and drying of grain and the care, feeding, and housing of livestock.

9. "*Industrial installation*" means an installation intended for use in the manufacture or processing of products involving systematic labor or habitual employment and includes installations in which agricultural or other products are habitually or customarily processed or stored for others, either by buying or reselling on a fee basis.

10. "*Inspector*" means a person certified as an electrical inspector upon such reasonable conditions as may be adopted by the board. The board may permit more than one class of electrical inspector.

11. "*New electrical installation*" means the installation of electrical wiring, apparatus, and equipment for light, heat, power, and other purposes.

12. "*Public use building or facility*" means any building or facility designated for public use, including all property owned and occupied or designated for use by the state of Iowa.

13. "*Residential electrician*" means a person having the necessary qualifications, training, experience, and technical knowledge to perform a residential installation.

14. "*Residential installation*" means the wiring for or installation of electrical wiring, apparatus, and equipment in a residence consisting of no more than four living units within the same building.

15. "*Residential master electrician*" means a person having the necessary qualifications, training, experience, and technical knowledge to properly plan, lay out, and supervise the performance of a residential installation.

16. "*Routine maintenance*" means the repair or replacement of existing electrical apparatus or equipment, including but not limited to wires, cables, switches, receptacles, outlets, fuses, circuit breakers, and fixtures, of the same size and type for which no changes in wiring are made, but does not include any new electrical installation or the expansion or extension of any circuit.

17. "*Special electrician*" means a person having the necessary qualifications, training, and experience in wiring or installing special classes of electrical wiring, apparatus, equipment, or installations which shall include irrigation system wiring, disconnecting and reconnecting of existing air conditioning and refrigeration, and sign installation and who is licensed by the board.

18. "*Unclassified person*" means any person, other than an apprentice electrician or other person licensed under this chapter, who, as such person's principal occupation, is engaged in learning and assisting in the installation, alteration, and repair of electrical wiring, apparatus, and equipment as an employee of a person licensed under this chapter, and who is licensed by the board as an unclassified person. For purposes of this chapter, persons who are not engaged in the installation, alteration, or repair of electrical wiring, apparatus, and equipment, either inside or outside buildings, shall not be considered unclassified persons.

2007 Acts, ch 197, §11, 50; 2008 Acts, ch 1032, §19; 2008 Acts, ch 1092, §7 - 10, 32; 2009 Acts, ch 39, §1; 2009 Acts, ch 179, §114; 2010 Acts, ch 1061, §19

### 103.2 Electrical examining board created.

1. An electrical examining board is created within the division of state fire marshal of the department of public safety. The board shall consist of eleven voting members appointed by the governor and subject to senate confirmation, all of whom shall be residents of this state.
2. The members shall be as follows:
  - a. Two members shall be journeyman electricians, one a member of an electrical workers union covered under a collective bargaining agreement and one not a member of a union.
  - b. Two members shall be master electricians or electrical contractors, one of whom is a contractor signed to a collective bargaining agreement or a master electrician covered under a collective bargaining agreement and one of whom is a contractor not signed to a collective bargaining agreement or a master electrician who is not a member of a union.
  - c. One member shall be an electrical inspector.
  - d. Two members, one a union member covered under a collective bargaining agreement and one who is not a member of a union, each of whom shall not be a member of any of the groups described in paragraphs "a" through "c", and shall represent the general public.
  - e. One member shall be the state fire marshal or a representative of the state fire marshal's office.
  - f. One member shall be a local building official employed by a political subdivision to perform electrical inspections for that political subdivision.
  - g. One member shall represent a public utility.
  - h. One member shall be an engineer licensed pursuant to chapter 542B with a background in electrical engineering.

3. The public members of the board shall be allowed to participate in administrative, clerical, or ministerial functions incident to giving a licensure examination, but shall not determine the content of the examination or determine the correctness of the answers. Professional associations or societies composed of licensed electricians may recommend to the governor the names of potential board members whose profession is representative of that association or society. However, the governor is not bound by the recommendations. A board member shall not be required to be a member of any professional electrician association or society.

2007 Acts, ch 197, §12, 50; 2008 Acts, ch 1092, §11, 32

Referred to in §100C.10, 103.1

[P] Confirmation, see §2.32

### 103.3 Terms of office — expenses — counsel.

1. Appointments to the board, other than the state fire marshal or a representative of the state fire marshal's office, shall be for three-year staggered terms and shall commence and end as provided by section 69.19. The most recently appointed state fire marshal, or a representative of the state fire marshal's office, shall be appointed to the board on an ongoing basis. Vacancies shall be filled for the unexpired term by appointment of the governor and shall be subject to senate confirmation. Members shall serve no more than three terms or nine years, whichever is least.

2. Members of the board are entitled to receive all actual expenses incurred in the discharge of their duties within the limits of funds appropriated to the board. Each member of the board may also be eligible to receive compensation as provided in section 7E.6.

3. The board shall be entitled to the counsel and services of the attorney general. The board may compel the attendance of witnesses, pay witness fees and mileage, take testimony and proofs, and administer oaths concerning any matter within its jurisdiction.

2007 Acts, ch 197, §13, 50

[P] Confirmation, see §2.32

### 103.4 Organization of the board.

The board shall elect annually from its members a chairperson and a vice chairperson, and shall hire and provide staff to assist the board in administering this chapter. An executive secretary designated by the board shall report to the state fire marshal for purposes of routine board administrative functions, and shall report directly to the board for purposes of execution of board policy such as application of licensing criteria and processing of

applications. The board shall hold at least one meeting quarterly at the location of the board's principal office, and meetings shall be called at other times by the chairperson or four members of the board. At any meeting of the board, a majority of members constitutes a quorum.

2007 Acts, ch 197, §14, 50

#### 103.5 Official seal — bylaws.

The board shall adopt and have an official seal which shall be affixed to all certificates of licensure granted.

2007 Acts, ch 197, §15, 50

#### 103.6 Powers and duties.

##### 1. The board shall:

a. Adopt rules pursuant to chapter 17A and in doing so shall be governed by the minimum standards set forth in the most current publication of the national electrical code issued and adopted by the national fire protection association, and amendments to the code, which code and amendments shall be filed in the offices of the state law library and the board and shall be a public record. The board shall adopt rules reflecting updates to the code and amendments to the code. The board shall promulgate and adopt rules establishing wiring standards that protect public safety and health and property and that apply to all electrical wiring which is installed subject to this chapter.

b. Revoke, suspend, or refuse to renew any license granted pursuant to this chapter when the licensee does any of the following:

(1) Fails or refuses to pay any examination, license, or renewal fee required by law.

(2) Is an electrical contractor and fails or refuses to provide and keep in force a public liability insurance policy and surety bond as required by the board.

(3) Violates any political subdivision's inspection ordinances.

c. Adopt rules for continuing education requirements for each classification of licensure established pursuant to this chapter, and adopt all rules, not inconsistent with the law, necessary for the proper performance of the duties of the board.

d. Provide for the amount and collection of fees for inspection and other services.

2. The board may, in its discretion, revoke, suspend, or refuse to renew any license granted pursuant to this chapter when the licensee violates any provision of the national electrical code as adopted pursuant to subsection 1, this chapter, or any rule adopted pursuant to this chapter.

2007 Acts, ch 197, §16, 50; 2008 Acts, ch 1031, §34; 2008 Acts, ch 1032, §20; 2008 Acts, ch 1092, §12, 32

Referred to in §103.10, 103.12, 103.18, 103.26, 103.29, 103.31

#### 103.7 Electrician and installer licensing and inspection fund.

An electrician and installer licensing and inspection fund is created in the state treasury as a separate fund under the control of the board. All licensing, examination, renewal, and inspection fees shall be deposited into the fund and retained by and for the use of the board. Expenditures from the fund shall be approved by the sole authority of the board in consultation with the state fire marshal. Amounts deposited into the fund shall be considered repayment receipts as defined in section 8.2. Notwithstanding section 8.33, any balance in the fund on June 30 of each fiscal year shall not revert to the general fund of the state, but shall remain available for the purposes of this chapter in subsequent fiscal years. Notwithstanding section 12C.7, subsection 2, interest or earnings on moneys deposited in the fund shall be credited to the fund.

2007 Acts, ch 197, §17, 50

#### 103.8 Activities where license required — exceptions.

1. No person, except a person licensed as an electrical contractor, shall engage in the business of providing new electrical installations or any other electrical services regulated under this chapter.

2. Except as provided in sections 103.13 and 103.14, no person shall, for another, plan, lay out, or supervise the installation of wiring, apparatus, or equipment for electrical light, heat, power, and other purposes unless the person is licensed by the board as an electrical contractor, a class A master electrician, or a class B master electrician.

2007 Acts, ch 197, §18, 50; 2008 Acts, ch 1092, §13, 32

Referred to in §103.13

#### 103.9 Electrical contractor license.

1. An applicant for an electrical contractor license shall either be or employ a licensed class A or class B master electrician, and be registered with the state of Iowa as a contractor pursuant to chapter 91C.

2. A contractor who holds a class B master electrician license shall be licensed subject to the restrictions of section 103.10.

2007 Acts, ch 197, §19, 50; 2008 Acts, ch 1032, §21

#### 103.10 Class A master electrician license — qualifications — class B master electrician license.

1. An applicant for a class A master electrician license shall have at least one year's experience, acceptable to the board, as a licensed class A or class B journeyman electrician.

2. In addition, an applicant shall meet examination criteria based upon the most recent national electrical code adopted pursuant to section 103.6 and upon electrical theory, as determined by the board.

3. a. An applicant who can provide proof acceptable to the board that the applicant has been working in the electrical business and involved in planning for, laying out, supervising, and installing electrical wiring, apparatus, or equipment for light, heat, and power since January 1, 1998, and for a total of at least sixteen thousand hours, of which at least eight thousand hours shall have been accumulated since January 1, 1998, may be granted a class B master electrician license without taking an examination. An applicant who is issued a class B master electrician license pursuant to this section shall not be authorized to plan, lay out, or supervise the installation of electrical wiring, apparatus, and equipment in a political subdivision which, prior to or after January 1, 2008, establishes licensing standards which preclude such work by class B master electricians in the political subdivision. The board shall adopt rules establishing procedures relating to the restriction of a class B master electrician license pursuant to this subsection.

b. A class B master electrician may become licensed as a class A master electrician upon successful passage of the examination prescribed in subsection 2.

4. A person licensed to plan, lay out, or supervise the installation of electrical wiring, apparatus, or equipment for light, heat, power, and other purposes and supervise apprentice electricians by a political subdivision preceding January 1, 2008, pursuant to a supervised written examination, and who is currently engaged in the electrical contracting industry, shall be issued an applicable statewide license corresponding to that licensure as a class A master electrician or electrical contractor. The board shall adopt by rule certain criteria for city examination standards satisfactory to fulfill this requirement.

5. The board may reject an application for licensure under this section from an applicant who would be subject to suspension, revocation, or reprimand pursuant to section 103.35.

2007 Acts, ch 197, §20, 50; 2008 Acts, ch 1077, §1, 3; 2008 Acts, ch 1092, §14, 32

Referred to in §103.1, 103.9

#### 103.10A Inactive master electrician license.

The board may by rule create an inactive master electrician license and establish a fee for such a license. An applicant for an inactive master electrician license shall, at a minimum, meet the requirements of this chapter and requirements established by the board by rule for licensure as a class A master electrician or a class B master electrician. A person licensed as an inactive master electrician shall not be authorized to act as a master electrician, but shall be authorized to apply for a class A master electrician license or a class B master electrician license at a future date subject to conditions and under procedures established by the board by rule. The conditions and procedures shall include but not be limited to completion of

the required number of contact hours of continuing education courses specified in section 103.18, and paying the applicable license fee specified in section 103.19 for a class A master electrician license or class B master electrician license.

2009 Acts, ch 39, §2

**103.11 Wiring or installing — supervising apprentices — license required — qualifications.**

Except as provided in section 103.13, no person shall, for another, wire for or install electrical wiring, apparatus, or equipment, or supervise an apprentice electrician or unclassified person, unless the person is licensed by the board as an electrical contractor, a class A master electrician, or a class B master electrician, or is licensed as a class A journeyman electrician or a class B journeyman electrician and is employed by an electrical contractor or is working under the supervision of a class A master electrician or a class B master electrician.

2007 Acts, ch 197, §21, 50; 2008 Acts, ch 1092, §15, 32

Referred to in §103.15

**103.12 Class A journeyman electrician license qualifications — class B journeyman electrician license.**

1. An applicant for a class A journeyman electrician license shall have successfully completed an apprenticeship training program registered by the office of apprenticeship of the United States department of labor in accordance with the standards established by that department or shall have received training or experience for a period of time and under conditions as established by the board by rule.

2. In addition, an applicant shall meet examination criteria based upon the most recent national electrical code adopted pursuant to section 103.6 and upon electrical theory, as determined by the board.

3. a. An applicant who can provide proof acceptable to the board that the applicant has been employed as a journeyman electrician since January 1, 1998, and for a total of at least sixteen thousand hours, of which at least eight thousand hours shall have been accumulated since January 1, 1998, may be granted a class B journeyman electrician license without taking an examination. An applicant who is issued a class B journeyman electrician license pursuant to this section shall not be authorized to wire for or install electrical wiring, apparatus, and equipment in a political subdivision which, prior to or after January 1, 2008, establishes licensing standards which preclude such work by class B journeyman electricians in the political subdivision. The board shall adopt rules establishing procedures relating to the restriction of a class B journeyman electrician license pursuant to this subsection.

b. A class B journeyman electrician may become licensed as a class A journeyman electrician upon successful passage of the examination prescribed in subsection 2.

4. A person licensed to wire for or install electrical wiring, apparatus, or equipment or supervise an apprentice electrician by a political subdivision preceding January 1, 2008, pursuant to a supervised written examination, and who is currently engaged in the electrical contracting industry with at least four years' experience, shall be issued an applicable statewide license corresponding to that licensure as a class A journeyman electrician or a class B journeyman electrician. The board shall adopt by rule certain criteria for city examination standards satisfactory to fulfill this requirement.

5. The board may reject an application for licensure under this section from an applicant who would be subject to suspension, revocation, or reprimand pursuant to section 103.35.

2007 Acts, ch 197, §22, 50; 2008 Acts, ch 1077, §2, 3; 2008 Acts, ch 1092, §16 – 18, 32; 2010 Acts, ch 1061, §20

Referred to in §103.1

**103.12A Residential electrician and residential master electrician license — qualifications.**

1. The board may by rule provide for the issuance of a residential electrician license, and may by rule provide for the issuance of a residential master electrician license.

a. A residential electrician license or residential master electrician license, if established



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

Date Mailed from BCC: 10-29-2013

Robert W. Dombrowski



Document E-13-72  
Exam Applicant Review

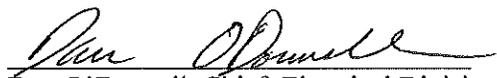
**NOTICE OF MICHIGAN ELECTRICAL ADMINISTRATIVE BOARD MEETING**

You are hereby notified that in accordance with the Administrative Procedures Act, 1969 PA 306, MCL 24.201 *et seq.*, and the Electrical Administrative Act, being 1956 PA 217 MCL 338.881 *et seq.*, you are scheduled to appear before the Michigan Electrical Administrative Board on:

Date: November 7, 2013  
Time: 9:30 a.m.  
Location: Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes  
2501 Woodlake Circle, Conference Room 3  
Okemos, MI 48864

This notice is to provide you the opportunity to provide testimony to the board regarding your experience and eligibility to sit for the Master Electrician exam. If you wish to offer any document(s) into evidence, you must file the documentation with Electrical Division prior to the meeting or bring fifteen (15) copies of the information you wish to enter for the board's consideration. In the event you are unable to attend the meeting or you choose not to appear before the board, please contact the Electrical Division in advance of the meeting. In the event that you fail to appear at the meeting as scheduled, a decision may be entered in your absence.

Accompanying this notice is a report outlining our findings and recommendation based upon the Electrical Administrative Act being 1956 PA 217 MCL and the documentation you have provided at the time of mailing. Any questions regarding this matter may be directed to the Electrical Division at (517) 241-9320.

  
Dan O'Donnell, Chief, Electrical Division

10/29/2013  
Date

*Providing for Michigan's Safety in the Built Environment*

Exam Applicant Review  
Robert W. Dombrowski  
Document No. E-13-72  
November 7, 2013  
Page 2 of 4

**PROOF OF SERVICE**

I hereby state, to the best of my knowledge, information, and belief, that a copy of the foregoing document was served on this date upon all parties and/or attorneys of record in this matter by email to those parties employed by the State of Michigan and by first class mail to the remaining parties at their respective addresses as disclosed below.

*Toni Nelson*

\_\_\_\_\_  
Toni Nelson, Secretary  
Electrical Division  
Bureau of Construction Codes

*10-29-2013*

\_\_\_\_\_  
Date

Robert W. Dombrowski



BCC Administration



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

November 7, 2013

E-13-73

TO: Members of the State Electrical Administrative Board

FROM: Dan O'Donnell, Chief, Electrical Division

SUBJECT: Master electrician examination application

**APPLICANT REPRESENTATIVE:**

Todd J. Volling

**PROJECT:**

N/A

**AUTHORITY:**

The Michigan Electrical Administrative Act, 1956 PA 217 of the Michigan Compiled Laws.

The Electrical Administrative Board General Rules

**REQUEST:**

Request to petition the Electrical Administrative Board to sit for the master electrician examination.

**APPLICABLE RULE:**

1956 PA 217 MCL, 338.883a Sec 3a. (c), MCL 338.883c Sec. 3c. (1) a,b,c,d,e, and Electrical Administrative Board General Rules, R338.1004a Rule 4a. (1), (a), (b), (2), 338.1006a Rule 6a. (1), (2)

**FINDINGS:**

Mr. Volling submitted an application to sit for the master electrician examination. The documentation submitted by Mr. Volling indicates that completed an electrical apprenticeship in May of 1995 sponsored through IBEW Local 127 in Kenosha,

*Providing for Michigan's Safety in the Built Environment*

LARA is an equal opportunity employer

Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.

P.O. BOX 30254 • LANSING, MICHIGAN 48909

www.michigan.gov/bcc • Telephone (517) 241-9302 • Fax (517) 241-9570

Wisconsin and NJATC. Mr. Vollings documentation also indicates that he has attained over 45000 hours of electrical experience beginning in 1990 and he is licensed as a master electrician and electrical contractor in the State of Wisconsin as well as being licensed as an electrical contractor in the City of Chicago.

**RECOMMENDATION:**

In accordance with the acts and rules listed above staff concludes that Mr. Volling meets the requirements to sit for the State of Michigan master electrician examination and recommends that the board approve his application.

**Application for Master Electrician Examination**  
 Michigan Department of Licensing and Regulatory Affairs  
 Bureau of Construction Codes / Electrical Division  
 P.O. Box 30255, Lansing, MI 48909  
 517-241-9320  
 www.michigan.gov/bcc

Agency Use Only

6217237

**Examination Fee: \$100.00 (nonrefundable)**

|   |  |
|---|--|
| Authority: 1956 PA 217<br>Completion: Mandatory<br>Penalty: Examination will not be given | LARA is an equal opportunity employer/program. Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. |
|---|--|

**Instructions:**

- See back of application for qualifications for examination.
- Complete and sign application. Type or print in ink.
- Application and fee must be received 20 business days prior to the examination date.
- Applicant must not be less than 22 years of age.
- Provide *original notarized* statements from current and past employers documenting required experience with this application. Statements must be on employers' letterhead stationery and include the dates and hours of employment (see qualifications on back of application) and names and license numbers of supervising master electricians. Be sure that all statements are *notarized*.
- Enclose a check made payable to the State of Michigan.
- Mail completed application, required documents, and payment to the address listed above.

Tran Info: 103 18831683-1 07/31/13  
 Chk#: 5203 Amt: \$100.00  
 ID: STRAY VOLTAGE

**Applicant Information**

|  |   |                                      |   |
|--|---|--------------------------------------|---|
| NAME (Last Name, First Name, Middle Initial)<br><u>Volling Todd J.</u> |   | DATE OF BIRTH<br>[REDACTED]          | LAST 4 DIGITS OF SOCIAL SECURITY NUMBER*<br>XXX-XX-[REDACTED] |
| ADDRESS<br>[REDACTED]  |   | CITY<br>[REDACTED]                   | TOWNSHIP  |
| COUNTY<br>[REDACTED]   | STATE<br>[REDACTED]                                   | ZIP CODE<br>[REDACTED]               | TELEPHONE NUMBER (Include Area Code)<br>[REDACTED]            |
| JOURNEYMAN LICENSE NUMBER<br>[REDACTED]                                | NUMBER OF YEARS JOURNEYMAN LICENSE HELD<br>[REDACTED] | LICENSING JURISDICTION<br>[REDACTED] |   |

Have you previously taken this examination?  Yes  No

If examination was not administered by the State Electrical Division provide the licensing entity:

City of Madison, WI Township of \_\_\_\_\_

**Examination Site**

Examinations are given at the sites listed below. Refer to the enclosed "Schedule of Electrical Board Meetings and Licensing Examinations" for examination dates. Please check below the site you wish to be examined at and indicate a preference of examination month. If approved for examination, an admission card will be mailed to you approximately 10 days prior to the examination date. If the examination you have selected is full, you will be scheduled for the next available examination at your preferred site.

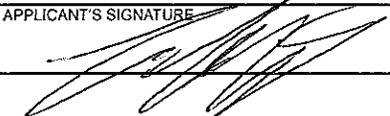
|   |                 |
|---|-----------------|
| Preferred Site                              | Preferred Month |
| <input checked="" type="checkbox"/> Lansing | <u>Aug.</u>     |
| <input type="checkbox"/> Escanaba           | _____           |

RECEIVED  
 AUG 02 2013  
 ELECTRICAL

If you have a disability and require an accommodation to take the examination, please submit written documentation from a professional (education professional, doctor, psychologist, psychiatrist) to certify that your disabling condition requires the requested test accommodation. Forms are available from this office.

**Certification and Signature**

I certify the information is true and accurate to the best of my ability and I have the experience required for this examination. I further understand falsification of any statement is cause for rejection of this application or revocation of license, if issued. If granted a master's license, I swear I will not represent as master more than one person, firm, or corporation and if I resign as master I will notify the electrical administrative board within 10 business days.

|  |                        |
|--|------------------------|
| APPLICANT'S SIGNATURE<br> | DATE<br><u>7-30-13</u> |
|--|------------------------|

\*This information is confidential. Disclosure of confidential information is protected by the Federal Privacy Act.



The Trustees  
of



*The National Joint Apprenticeship and Training Committee*

for the  
INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS

and the  
NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION

upon the Recommendation of the  
Kenosha Area Electrical

JOINT APPRENTICESHIP AND TRAINING COMMITTEE

do hereby present this diploma to

**Todd Volling**

*In recognition of satisfactory completion of their indenture, as indicated by acquiring the minimum number of on-the-job hours, related studies and/or classroom training; thereby accomplishing a degree of knowledge and skill level which is mastered only by those who attain the goals and standards set forth by this Industry. The above named graduate is therefore worthy and deserving of the Internationally Recognized classification of*

**Journeyman Wireman**

*which is herewith conferred as acknowledged by the signatures of the Trustees  
on this twenty-sixth day of May in the year 1995*

*E. J. Hill*  
President, IBEW

*John M. Gurn*  
Executive Vice President & CEO, NECA



*Brian J. Deery*  
NJATC Chairman

*John D. Bonaretti*  
NJATC Secretary

Wisconsin Department of Safety and Professional Services  
Trades Credentialing Unit  
PO Box 78780  
Milwaukee, WI 53293-0780

Credential Unit  
1400 E. Washington Ave.  
Madison WI 53703-7082  
Phone: (608) 261-8467  
TDD: (608) 264-8777  
Fax: (608) 267-0592  
DspSbCredentialing@wi.gov

TODD J VOLLING  
STRAY VOLTAGE LLC



**This is your new Certification, License, or Registration Card.**

ID: 1125366

STRAY VOLTAGE LLC

| Certification, License, or Registration Name | Expires  |
|--|----------|
| Electrical Contractor License                | 08/30/16 |
| Building Contractor Registration             | 11/17/13 |

Wisconsin Department of Safety and Professional Services  
Signature:

RECEIVED  
AUG 02 2013  
ELECTRICAL  
DIVISION

**Peel the credential card from the letter. Sign the card!**

\*\*\* Please check your credentials to see if they require continuing education prior to your next renewal.\*\*\*

Show the card to whomever requests proof that you hold a credential administered by the Department of Safety and Professional Services.

This card should indicate other Department of Safety and Professional Services certifications, licenses, or registrations you currently hold. Destroy all previous cards that have a credential category which also appears on this card. Please review the information on the card. If errors or discrepancies are found, contact the Credential Unit, 608-261-8467. You can also send an email to DspSbCredentialing@wi.gov. Be prepared to give the staff person the ID number printed on the card. The department should also be notified of changes in addresses as they occur. Notification of address changes is the responsibility of the credential holder.

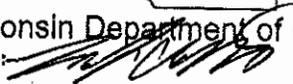
A renewal notice will be sent to the address on file about 30 days before the expiration date of each credential indicated on the card. Renewals are contingent upon compliance with the requirements specified in SPS305, Wisconsin Administrative Code.

Credential Unit  
Safety and Buildings Division  
201 W Washington Ave, 4th floor  
PO Box 7082  
Madison WI 53707-7082  
Phone: (608) 261-8467  
TDD: (608) 264-8777  
Fax: (608) 267-0592  
madisoncred@commerce.state.wi.us

TODD J VOLLING



## This is your new Certification, License, or Registration Card.

|  |          |
|--|----------|
| ID: 172231   |          |
| TODD J VOLLING   |          |
| Certification, License, or Registration Name   | Expires  |
| Master Electrician License   | 06/30/15 |
| Wisconsin Department of Commerce   |          |
| Signature:  |          |

RECEIVED  
AUG 02 2013  
ELECTRICAL  
DIVISION

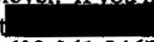
\*\*\* Please check your credentials to see if they require continuing education prior to your next renewal.\*\*\*

### Peel the credential card from the letter. Sign the card!

Show the card to whomever requests proof that you hold a credential administered by the Safety and Buildings Division.

This card should indicate other Department of Commerce certifications, licenses, or registrations you currently hold. Destroy all previous cards that have a credential category which also appears on this card. Please review the information on the card. If errors or discrepancies are found, contact the S&B Credential Unit, 608-261-8467. You can also send an email to S&B, madisoncred@commerce.state.wi.us. Be prepared to give the S&B staff person the ID number printed on the card. S&B should also be notified of changes in addresses as they occur. Notification of address changes is the responsibility of the credential holder.

A renewal notice will be sent to the address on file with S&B about 30 days before the expiration date of each credential indicated on the card. Renewals are contingent upon compliance with the requirements specified in Comm 5, Wisconsin Administrative Code.

The Department of Commerce is an equal opportunity service provider and employer. If you need assistance to access services or need material in an alternate format, please contact the department at  or TDD 608-264-8777. 608-261-8467



Scott Walker, Governor  
Dave Ross, Secretary

## Master Electrician License

### Your application will not be processed or will be delayed unless you:

- 1. Complete the application including signing and dating the first page.
- 2. Write in your social security number.
- 3. Attach the specified documents listed on this application.
- 4. Attach the specified fee listed on this application.
- 5. Make a photocopy of the completed application for your records.

By signing below, the applicant swears that all information provided on this application is true, accurate and that the credential requirements are met. Notice: Information collected may be used for participation surveys, eligibility for approvals, law enforcement (including child support and tax delinquency enforcement) purposes and other secondary purposes. The Department may also provide this information to requesters pursuant to Wisconsin's open records law, ss. 19.31-19.39 stats. Social security numbers are required when applying for a license per Wisconsin Stats, but they may not be disclosed to anyone except other State of Wisconsin governmental agencies.

|   |  |
|---|--|
| <b>Applicant Information</b>                |  |
| Applicant's Social Security No:             |  |
| Applicant's Name (First, Middle and Last):  |  |
| Address No. & Street, or P.O. Box:          |  |
| City, Town or Village, State, Zip + 4 Code: |  |
| Country, If Other Than United States:       |  |
| Telephone No. (include area code):          |  |
| If Available, Fax No. (include area code):  |  |
| If Available, E-mail Address:               |  |

\_\_\_\_\_  
Applicant's Signature

\_\_\_\_\_  
Date (mo/day/yr)

RECEIVED  
AUG 02 2013  
ELECTRICAL  
DIVISION

**Send application and payment to:** DSPS Trades Credentialing, PO Box 78780, Milwaukee, WI 53293-0780.

**Office location:** DSPS Trades Credentialing, 1400 East Washington Ave., Madison, WI 53703

**All other correspondence:** DSPS Trades Credentialing, PO Box 7082, Madison, WI 53707 Phone: 608-266-2112. TTY: Contact through Relay or [DspsSbCredentialing@wi.gov](mailto:DspsSbCredentialing@wi.gov).

**Reason for Credential:** Except as provided under s. 101.862(4), Stats., no person as of April 1, 2014 may install, repair or maintain electrical wiring unless the person holds a license or registration issued by the department as a licensed Master Electrician, licensed residential Master Electrician, licensed Journeyman Electrician, licensed Industrial Journeyman Electrician, licensed Residential Journeyman Electrician, registered Beginning Electrician, registered Electrical Apprentice, registered Industrial Electrical Apprentice or a registered Residential Electrical Apprentice. A person holding a Master Electrician certification may apply without examination for a Commercial Electrical Inspector certification.

**Requirements of Credential:** For any electrical installation that requires a uniform building permit under SPS 320.08, a person who holds a Master Electrician license may not commence installation of electrical wiring until a permit is issued for the installation. A person who as a licensed Master Electrician is responsible for the installation, repair or maintenance of electrical wiring shall utilize the appropriately licensed or registered individuals to construct, install, repair or maintain electrical wiring.

**Education Hours Required to Renew:** The renewal of a Master Electrician license shall be contingent upon the Master Electrician obtaining at least 24 hours of acceptable continuing education three months prior to the expiration date of their

credential. A person who holds a license as a Master Electrician may apply to the department for waiver of the continuing education requirements on the grounds of prolonged illness or disability or similar circumstances. Each application for waiver shall be considered individually on its merits by the department.

## Applying for Master Electrician License

A person may obtain a credential as a licensed Master Electrician by one of the following methods:

- Method 1** Completing the necessary hours of experience and taking and passing the Master Electrician license examination.  
**Method 2** A person who held a Wisconsin Master Electrician license but exchanged it for a Journeyman Electrician license may, upon application to the department, exchange his or her Journeyman Electrician license, for a Master Electrician license. If the exchange is made at the time of renewal a credential fee of \$200 for the Master Electrician license shall be submitted.

### Are you a Veteran?

If yes, please answer the following questions to see if you qualify for a fee waiver or equivalency for this credential.

#### 1. Are you requesting a waiver of your initial credentialing fee under method 1?

- Yes Provide a copy of your Department of Veterans Affairs voucher code. DVA Voucher Code: \_\_\_\_\_  
Your application fee of \$35 will be waived now and your credential fee will be waived once you pass the exam. **You must submit \$30 for the exam fee at this time.**
- No Submit the fees required under method 1 to obtain your credential.

#### 2. Are you requesting a waiver of your initial credentialing fee under method 2?

- Yes Provide a copy of your Department of Veterans Affairs voucher code. DVA Voucher Code: \_\_\_\_\_
- No Submit the fees required under method 2 to obtain your credential.

#### 3. Are you requesting equivalency of your military training and experience?

- Yes Provide copies of your service school academic reports, certificates of training, or training documentation signed by your unit's training NCO or any other relevant experience that would satisfy the requirements of method 1. You may attach a personal narrative to further explain why your education / training / experience in the military has helped you prepare for this profession.
- No Complete the requirements under method 1.

You may contact DVA at 1-800-WisVets or [www.WisVets.com](http://www.WisVets.com) for assistance in obtaining your DVA Voucher Code and/or documents related to your training and experience.

## Method 1 - Experience or Degree and Examination

### Application and Exam Fee (nonrefundable): \$ 65.00

class code 7631

Make checks payable to: State of WI – DSPS. The fee consists of a \$35 application fee and an exam fee of \$30. When the exam is passed, the applicant will be asked to pay a \$200 credential fee which will be prorated because the credential expires on a specific date. The credential, which will be issued after the exam is passed and the prorated credential fee paid, will be effective for four years from June 30<sup>th</sup>.

### Qualifications for Examination:

A person applying for a Master Electrician license examination shall have at least 1,000 hours per year of experience for at least 7 years in electrical construction work. If a person has successfully completed semesters in a school of electrical engineering or other accredited college, university, technical or vocational school in an electrical-related program, the applicant may claim 500 hours of experience for each semester up to a total of 3,000 hours and 3 years toward the required experience.

The time period does not have to be consecutive years from one row to the next. In the Time Period column fill in the beginning month and year and the ending month and year in which the experience hours were completed. In the Experience Hours column fill in the number of hours claimed for that time period but do not record more than 1000 hours in the column even if you worked more than 1000 hours. If the hours were witnessed by more than one person, the hours witnessed by each person must be filled in on separate rows. Photocopies of this page may be made if you need additional room or would like to mail to witnesses to sign. The witness must have observed or had knowledge of the number of work hours performed in electrical construction. Electrical construction means the installation of electrical wiring. Electrical construction does not include the maintenance, repair or fabrication of electrical equipment or the installation of electrical wiring and equipment covered by ch. PSC 114.

RECEIVED  
AUG 02 2013  
ELECTRICAL  
DIVISION

# Voll-Tage Electric

Michigan Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes/ Electrical Division  
PO Box 30255, Lansing, MI 48909

September 20, 2013

RE: Todd Volling's Background/Supervision

To Whom It May Concern,

Please note the Todd Volling was under the supervision of Ron E Springer, Master Electrician of the State of Wisconsin. 1139 87<sup>th</sup> Ave, Kenosha, WI 53140 and was employed by Volltage Electric.

From March 4<sup>th</sup>, 2002 through May 29<sup>th</sup> 2009 Ron Springer worked a total of 15,285 hours.

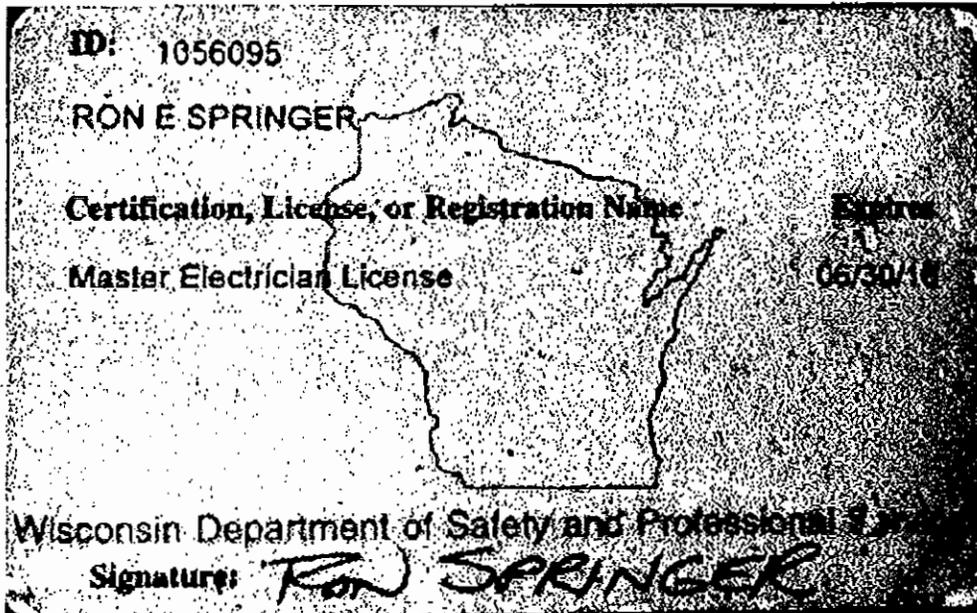
Ron was in charge of running various size crews and projects ranging from small/simple remodels to large complicated commercial build-outs.

During this time Todd Volling worked in the field under Ron's supervision as he performed conduit bending, laying out installations, control wiring, services, feeders & transformers.

Sincerely,

**RON SPRINGER**  
 Ron Springer  
 Master Electrician  
 NOTARY PUBLIC  
 STATE OF WISCONSIN

RECEIVED  
 OCT 10 2013  
 ELECTRICAL  
 DIVISION



RECEIVED  
OCT 10 2013  
ELECTRICAL  
DIVISION

From: Brandon Delters [REDACTED]  
 Subject: FW: Ron Springer  
 Date: October 1, 2013 at 6:45 AM  
 To: todd@strayvoltage.com

From: Orr, Karl M - DSPS [REDACTED]  
 Sent: Monday, September 30, 2013 8:19 AM  
 To: [REDACTED]  
 Subject: Ron Springer

Credential Detail -- MF license for Todd J Volting

Business [REDACTED]

Applicant/Contact  
 Customer ID: 1056085 Type: Individual Status: Active  
 RONE SPRINGER  
 [REDACTED]  
 (262) 960-8939

Credential Type: [REDACTED] Next Status/Action: [REDACTED]

| Expires  | Status                | Effective | Action           | Sent     | Returned | Processed | Letter ID |
|----------|-----------------------|-----------|------------------|----------|----------|-----------|-----------|
| 05/30/18 | Late Renewal Approved | 06/03/12  |                  |          |          |           |           |
|          | Renewal App Sent      | 05/09/01  | Renewal App Sent | 05/09/01 | 05/30/01 | 05/30/01  |           |
| 05/30/01 | Approved              | 08/10/99  |                  |          |          |           |           |
|          | Renewal App Sent      | 05/04/98  | Renewal App Sent | 05/04/98 | 06/05/98 | 06/10/98  |           |
| 06/30/98 | Approved              | 08/30/85  |                  |          |          |           |           |

VA Voucher info  
 Va Voucher: [REDACTED] Date Entered: 00/00/0000  
 Waived Application Fee  Waived Credential Fee

Print  
 Waive Exam

Karl Orr  
 Department of Safety & Professional Services  
 Trades/Credentialing Unit  
 1400 E. Washington Ave  
 Madison, WI 53703

RECEIVED  
 OCT 10 2013  
 ELECTRICAL  
 DIVISION

**Search for Individual or Company by Category here:**

Credential Type

Credential Status (required)

Zip (or first three digits)

Last or Business Name

1 record(s) were returned by your search.

| ID      | Name            | City,State,Zip | Credential Type    | Expiration |
|---------|-----------------|----------------|--------------------|------------|
| 1056095 | SPRINGER, RON E |                | Master Electrician | 06/30/16   |



Rahm Emanuel, Mayor

# Certificate of Registration

issued by the

**Department of Buildings**

**of the City of Chicago**

RECEIVED  
AUG 09 2013  
ELECTRICAL PERMITS

*This is to Certify that  
located at*

**TODD VOLLING - ECC94255**



*having complied with the requirements of Ordinances passed by the City Council of the City of Chicago  
providing for the registration of electrical contractors is hereby recorded as a*

**REGISTERED ELECTRICAL CONTRACTOR**

**General Electrician**

*and is entitled to perform electrical work in the City of Chicago under the Direction of Supervising Electrician  
provided that such work permits are subject to the provisions of all the Ordinances of the City of Chicago  
now in force or which may be hereafter passed. This certificate **EXPIRES** June 30, 2014.*

**SUPERVISING ELECTRICIAN: TODD VOLLING - SE6852**

*In Witness Whereof I have hereunto set my hand on July 11, 2013.*

Michael . Merchant, Commissioner



CITY OF CHICAGO

# DEPARTMENT OF BUILDINGS

## Supervising Electrician License - Exam Application

- All applicants must be 21 years of age.
- Provide an original signed letter (on company stationary) from the applicant's current or former employer (licensed electrical contractor). The letter must verify the dates of employment and establish a minimum of two cumulative years of experience in the installation, maintenance or alteration of building wiring systems relating to the applicant's category of the Supervising Electrician's license examination. The letter must include a description of the applicant's duties and responsibilities and be signed by a Supervising Electrician with an active City license. The letter must include the Electrical Contractor's license number.  
**OR** if the applicant's work experience is limited to a State, County, or local jurisdiction, which does NOT require licensing and/or registration of electrical contractors, or electrical wiring permits, provide a letter of verification from that jurisdiction along with a detailed, chronological history of the applicant's work experience.
- Provide a photo copy of the employer's Electrical Contractor license photo ID card.
- Provide a check for the \$70.00 examination fee payable to the City of Chicago, Department of Revenue.
- Notarized form and required supplemental materials must be mailed to:

City of Chicago  
 Supervising Electrician License  
 P.O. Box 388249  
 Chicago, IL 60638-8249

This box is reserved for City use.

- Incomplete applications will be returned without processing.
- For questions, call (800) 359-1313 or [tradelicense@continentaltesting.net](mailto:tradelicense@continentaltesting.net)

(Approval-Chief Elect. Inspector)

Name: \_\_\_\_\_ Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Driver's License #: \_\_\_\_\_  
 Email: \_\_\_\_\_ Daytime Phone: \_\_\_\_\_ Date of Birth: \_\_\_\_\_  
 Present Occupation: \_\_\_\_\_ Social Security number: \_\_\_\_\_

RECEIVED

Employer's Name: \_\_\_\_\_ Employer's Name: \_\_\_\_\_  
 SE's Name: \_\_\_\_\_ SE's Name: \_\_\_\_\_  
 Supervising Electrician's Lic. #: \_\_\_\_\_ Supervising Electrician's Lic. #: \_\_\_\_\_  
 Address: \_\_\_\_\_ Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Period of Employment From \_\_\_\_\_ To \_\_\_\_\_ Period of Employment From \_\_\_\_\_ To \_\_\_\_\_

AUG 02 2013  
 ELECTRICAL  
 DIVISION

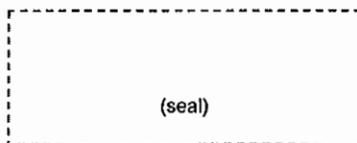
Have you ever been licensed as an Electrician? YES \_\_\_ NO \_\_\_ Company: \_\_\_\_\_ State: \_\_\_\_\_ Date: \_\_\_\_\_  
 Have you ever taken the City of Chicago's Supervising Electrician License Exam? YES \_\_\_ NO \_\_\_  
 If YES, when did you most recently take this exam? Date: \_\_\_\_\_

Identify the class of electrical work in which the applicant desires to engage: (Check one)

General Electrical \_\_\_ Maintenance \_\_\_ Sign \_\_\_ Theater \_\_\_ Health Maintenance \_\_\_ Low Volt. \_\_\_ Elevator \_\_\_

Applicant's Name \_\_\_\_\_

Applicant's Signature \_\_\_\_\_



Subscribed and sworn to before me on  
 this \_\_\_ day of \_\_\_\_\_ Year \_\_\_\_\_

Notary Signature \_\_\_\_\_



# CITY OF MEQUON

OZAUKEE COUNTY, WISCONSIN

## ELECTRICAL CONTRACTOR'S LICENSE

City License No. **E12-183**

Date **2/19/2013**

This is to certify that **Todd Volling** of **Stray Voltage LLC**

**ELECTRICAL CONTRACTOR**, has been given satisfactory evidence to perform electrical installation work and has paid the City of Mequon the **\$50.00** License Fee as required by ordinance.

**PERMISSION** is therefore granted to perform electrical installation work in the City of Mequon ~~Subject to the~~ **Electrical Code** for the period of July 31,



SEAL

*Paul J. [Signature]*  
City Clerk

RECEIVED

AUG 02 2013

ELECTRICAL  
DIVISION



License # EC-0332

This certifies that

Stray Voltage LLC

is registered as a

\*\*\*MASTER ELECTRICIAN\*\*\*

for the year ending December 31, 2013

RECEIVED  
AUG 02 2013  
ELECTRICAL  
DIVISION





# CITY OF DECATUR

DECATUR, ILLINOIS

**THIS IS TO CERTIFY THAT**

**VOLLING, TODD**  
**Stray Voltage Llc Kenosha, WI**

**is hereby registered by the above City as a REGISTERED  
ELECTRICAL CONTRACTOR as defined in the City of Decatur  
Ordinance, Chapter 25**

**NOT TRANSFERABLE**

This registration expires December 31, 2013

License # – EC92-058

Date: April 17, 2013

Shonda M. Sures City Clerk

RECEIVED  
AUG 02 2013  
ELECTRICAL  
DIVISION

# CONTRACTOR REGISTRATION CERTIFICATE

Issued to

**Stray Voltage LLC**

*Todd Volling*

Primary Type

**Sub**

Trades

Electric

Registration Paid: 01/22/2013

Workman's Comp Waived? NO

Expires: 12/31/2013

Expires: 06/01/2013

Liability Insurance Expires: 06/01/2013

Bond Expires: 01/15/2014

Registration

**2013001749**



RECEIVED

AUG 02 2013

ELECTRICAL  
DIVISION

**WILL COUNTY**  
*Land Use Department*

A handwritten signature in black ink, appearing to be "Todd Volling", is written over a horizontal line.

Contractor's Registration

815/727-8634

FAX: 815/727-8638

**PORTER COUNTY BOARD OF COMMISSIONERS**

**CONTRACTOR REGISTRATION  
PORTER COUNTY UNIFIED DEVELOPMENT ORDINANCE**

**TO Stray Voltage LLC**

**Electrical;**

Contractor Registration

License Number:

**13-697-1184**

Expiration Date:

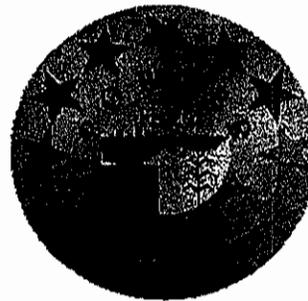
Dec 31 2013

Print Date

Thursday, January 17, 2013

Plumbing License No:

**Pursuant to Porter County Ordinance 05-17, the Porter County Plan Commission does hereby issue this registration to the above named entity, to engage in the practice or act in the capacity of a contractor in the above named classification(s). This registration is non-transferable and shall be returned upon demand when suspended, revoked, or invalidated for any reason.**



RECEIVED  
ELECTRICAL  
DIVISION

AUG 19 2013

RECEIVED

**CITY OF PORTAGE**

#S13-6420

THIS IS TO CERTIFY THAT

STRAY VOLTAGE, LLC



IS A DULY Licensed Electrical

Contractor for the year 2013.

OF THE CITY OF PORTAGE, PORTER COUNTY, INDIANA

7-8-13

DATE

*Douglas Duany*  
BUILDING COMMISSIONER

RENEW JAN. 1ST OF EACH YEAR

RECEIVED

AUG 02 2013

ELECTRICAL  
DIVISION

**CONTRACTOR REGISTRATION CERTIFICATE**

STATE OF IOWA

DATE ISSUED: 5/19/2012

IOWA WORKFORCE DEVELOPMENT  
DIVISION OF LABOR SERVICES  
CONTRACTOR REGISTRATION

DATE EXPIRES: 5/19/2013

REGISTRATION NUMBER: C113566

1000 East Grand Ave.  
Des Moines, IA 50319-0209  
Phone (515) 242 - 5871

STRAY VOLTAGE LLC



*Michael A Mauro*

Michael A. Mauro, Commissioner



Print Form



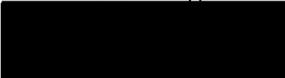
RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

Date Mailed from BCC: 10-29-2013

Todd J. Volling



Document E-13-73  
Exam Applicant Review

**NOTICE OF MICHIGAN ELECTRICAL ADMINISTRATIVE BOARD MEETING**

You are hereby notified that in accordance with the Administrative Procedures Act, 1969 PA 306, MCL 24.201 *et seq.*, and the Electrical Administrative Act, being 1956 PA 217 MCL 338.881 *et seq.*, you are scheduled to appear before the Michigan Electrical Administrative Board on:

Date: November 7, 2013  
Time: 9:30 a.m.  
Location: Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes  
2501 Woodlake Circle, Conference Room 3  
Okemos, MI 48864

This notice is to provide you the opportunity to provide testimony to the board regarding your experience and eligibility to sit for the Master Electrician exam. If you wish to offer any document(s) into evidence, you must file the documentation with Electrical Division prior to the meeting or bring fifteen (15) copies of the information you wish to enter for the board's consideration. In the event you are unable to attend the meeting or you choose not to appear before the board, please contact the Electrical Division in advance of the meeting. In the event that you fail to appear at the meeting as scheduled, a decision may be entered in your absence.

Accompanying this notice is a report outlining our findings and recommendation based upon the Electrical Administrative Act being 1956 PA 217 MCL and the documentation you have provided at the time of mailing. Any questions regarding this matter may be directed to the Electrical Division at (517) 241-9320.

  
Dan O'Donnell, Chief, Electrical Division

10/29/2013  
Date

*Providing for Michigan's Safety in the Built Environment*

Exam Applicant Review  
Todd J. Volling  
Document No. E-13-73  
November 7, 2013  
Page 2 of 4

**PROOF OF SERVICE**

I hereby state, to the best of my knowledge, information, and belief, that a copy of the foregoing document was served on this date upon all parties and/or attorneys of record in this matter by email to those parties employed by the State of Michigan and by first class mail to the remaining parties at their respective addresses as disclosed below.

*Toni Nelson*

\_\_\_\_\_  
Toni Nelson, Secretary  
Electrical Division  
Bureau of Construction Codes

*10-29-2013*

\_\_\_\_\_  
Date

Todd J. Volling  


BCC Administration



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

November 7, 2013

E-13-74

TO: Members of the State Electrical Administrative Board  
FROM: Dan O'Donnell, Chief, Electrical Division  
SUBJECT: Master electrician examination application

**APPLICANT REPRESENTATIVE:**

Aaron D. Anderson

**PROJECT:**

N/A

**AUTHORITY:**

The Michigan Electrical Administrative Act, 1956 PA 217 of the Michigan Compiled Laws.

The Electrical Administrative Board General Rules

**REQUEST:**

Request to petition the Electrical Administrative Board to sit for the master electrician examination.

**APPLICABLE RULE:**

1956 PA 217 MCL, 338.883a Sec 3a. (c), MCL 338.883c Sec. 3c. (1) a,b,c,d,e, and Electrical Administrative Board General Rules, R338.1004a Rule 4a. (1), (a), (b), (2), 338.1006a Rule 6a. (1), (2)

**FINDINGS:**

Mr. Anderson submitted an application to sit for the master electrician examination. The documentation that Mr. Anderson provided indicates that he has attained 21,728 hours of electrical experience under the supervision of a master electrician and electrical

*Providing for Michigan's Safety in the Built Environment*

contractor in the State of Maryland. Mr. Anderson also holds a current master electrician license in the State of Virginia.

**RECOMMENDATION:**

In accordance with the acts and rules listed above staff concludes that Mr. Anderson meets the requirements to sit for the State of Michigan master electrician examination and recommends that the board approve his application.

**Application for Master Electrician Examination**  
 Michigan Department of Licensing and Regulatory Affairs  
 Bureau of Construction Codes / Electrical Division  
 P.O. Box 30255, Lansing, MI 48909  
 517-241-9320  
 www.michigan.gov/bcc

Agency Use Only

6218093

**Examination Fee: \$100.00 (nonrefundable)**

|   |  |
|---|--|
| Authority: 1956 PA 217<br>Completion: Mandatory<br>Penalty: Examination will not be given | LARA is an equal opportunity employer/program. Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. |
|---|--|

**Instructions:**

- See back of application for qualifications for examination.
- Complete and sign application. Type or print in ink.
- Application and fee must be received 20 business days prior to the examination date.
- Applicant must not be less than 22 years of age.
- Provide *original notarized* statements from current and past employers documenting required experience with this application. Statements must be on employers' letterhead stationery and include the dates and hours of employment (see qualifications on back of application) and names and license numbers of supervising master electricians. Be sure that all statements are *notarized*.
- Enclose a check made payable to the State of Michigan.
- Mail completed application, required documents, and payment to the address listed above.

From Info: 103 18634276-1 04/30/13  
 CNR#: 4099 Amt: \$100.00  
 TO: TARRA TALMADGE-ANDERSON

**Applicant Information**

|   |   |   |   |
|---|---|---|---|
| NAME (Last Name, First Name, Middle Initial)<br><i>Anderson Aaron D.</i>    |   | DATE OF BIRTH<br>[REDACTED]                               | LAST 4 DIGITS OF SOCIAL SECURITY NUMBER*<br>XXX-XX-[REDACTED] |
| ADDRESS<br>[REDACTED]   | CITY<br>[REDACTED]  | TOWNSHIP  |   |
| COUNTY  | STATE<br>[REDACTED]   | ZIP CODE<br>[REDACTED]                                    | TELEPHONE NUMBER (Include Area Code)<br>[REDACTED]            |
| JOURNEYMAN LICENSE NUMBER<br><i>Virginia</i><br><i>Master</i><br>2710069375 | NUMBER OF YEARS JOURNEYMAN LICENSE HELD<br><i>MASTER ELECTRICIAN</i><br><i>VIRGINIA</i> | LICENSING JURISDICTION<br><i>Commonwealth of Virginia</i> |   |

Have you previously taken this examination?  Yes  No

If examination was not administered by the State Electrical Division provide the licensing entity:  
 City of \_\_\_\_\_ Township of \_\_\_\_\_

**Examination Site**

Examinations are given at the sites listed below. Refer to the enclosed "Schedule of Electrical Board Meetings and Licensing Examinations" for examination dates. Please check below the site you wish to be examined at and indicate a preference of examination month. If approved for examination, an admission card will be mailed to you approximately 10 days prior to the examination date. If the examination you have selected is full, you will be scheduled for the next available examination at your preferred site.

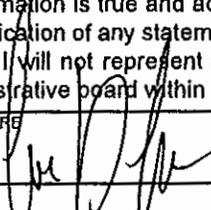
| Preferred Site                              | Preferred Month |
|---|-----------------|
| <input checked="" type="checkbox"/> Lansing | <u>May</u>      |
| <input type="checkbox"/> Escanaba           | _____           |

RECEIVED  
 MAY 03 2013  
 ELECTRICAL DIVISION

If you have a disability and require an accommodation to take the examination, please submit written documentation from a professional (education professional, doctor, psychologist, psychiatrist) to certify that your disabling condition requires the requested test accommodation. Forms are available from this office.

**Certification and Signature**

I certify the information is true and accurate to the best of my ability and I have the experience required for this examination. I further understand falsification of any statement is cause for rejection of this application or revocation of license, if issued. If granted a master's license, I swear I will not represent as master more than one person, firm, or corporation and if I resign as master I will notify the electrical administrative board within 10 business days.

|  |                 |
|--|-----------------|
| APPLICANT'S SIGNATURE<br> | DATE<br>4-18-13 |
|--|-----------------|

\*This information is confidential. Disclosure of confidential information is protected by the Federal Privacy Act.

**Qualifications for Examination**

To qualify for a master electrician license examination, a person shall meet the following criteria:

- (a) Provide an *original notarized* statement from present or past employers to demonstrate the attainment of 4,000 hours in not less than 2 years of practical experience under the supervision of a master electrician, subsequent to initial journeyman license issue date.
- (b) If the journeyman license was not issued by the board (department), provide a copy of the license that was issued by a municipality providing for licensing pursuant to the provisions of section 6 of the act or a statement from the licensing authority that verifies the license issue date shall be furnished.

**Examination Eligibility of Applicants From Other States or Countries**

A person who is licensed as a master electrician in another state or country may qualify for examination upon a determination by the board that the license was obtained by the person through substantially the same or equal requirements as those of the state of Michigan. Refer to information packet.

**Information**

Applicants are permitted one examination for the \$100.00 fee. Upon achieving a passing score of 75% or higher, the applicant will be billed \$50.00 for the master electrician license prior to issuance of the license.

A separate license is required for an electrical contractor.

RECEIVED  
MAY 03 2013  
ELECTRICAL  
DIVISION

**Agency Use Only**

**Validation Area**

Approved for Exam     Yes     No

| Date of Exam | Score | Absent | Date of Exam | Score | Absent |
|--------------|-------|--------|--------------|-------|--------|
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |
|              |       |        |              |       |        |

Date Approved by EAB \_\_\_\_\_

## Details of license number 2710059375

[print](#)

|                              |                           |
|------------------------------|---------------------------|
| Name:                        | ANDERSON, AARON DAVID     |
| License Number:              | 2710059375                |
| License Description:         | Tradesman                 |
| Address:                     | [REDACTED]                |
| Specialties/Classifications: |                           |
| Classification Definitions   | Master Electrician (MELE) |
| Specialty Definitions        |                           |
| Initial Certification Date:  | January 30, 2013          |
| Expiration Date:             | January 31, 2015          |

### Complaints

#### No Open Complaints

"Open Complaints" reflect only those complaints against regulants for which a departmental investigation has determined that sufficient evidence exists to establish probable cause of a violation of the law or regulations. Only those cases that have proceeded through an investigation to the adjudication stage are displayed. **State law prohibits the disclosure of any information about open complaints** [Code of Virginia Section 54.1-108]. Members of the public may review official records and obtain copies only after a complaint investigation is closed.

#### No Closed Complaints

"Closed Complaints" reflect complaints against regulants closed since 1990. Cases closed without disciplinary action are purged after three years in accordance with DPOR's record retention policy.

To inquire about closed complaints, see the department's [Public Records Access](#) or contact the department's Information Management Section at (804) 367-8583 or [publicrecords@dpor.virginia.gov](mailto:publicrecords@dpor.virginia.gov).

RECEIVED  
MAY 03 2013  
ELECTRICAL  
DIVISION

DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION  
COMMONWEALTH OF VIRGINIA

9960 Mayland Dr., Suite 400, Richmond, VA 23233  
Telephone: (804) 367-8500

EXPIRES ON  
01-31-2015

NUMBER  
2710059375

BOARD FOR CONTRACTORS  
TRADESMAN

AARON DAVID ANDERSON  
[REDACTED]

RECEIVED

MAY 03 2013

ELECTRICAL  
DIVISION



*Gordon N. Dixon*  
Gordon N. Dixon, Director

ALTERATION OF THIS DOCUMENT, USE AFTER EXPIRATION, OR USE BY PERSONS OR FIRMS OTHER THAN THOSE NAMED MAY RESULT IN CRIMINAL PROSECUTION UNDER THE CODE OF VIRGINIA.

(SEE REVERSE SIDE FOR NAME AND/OR ADDRESS CHANGE)

(POCKET CARD)

COMMONWEALTH OF VIRGINIA  
BOARD FOR CONTRACTORS  
TRADESMAN  
NUMBER: 2710059375 EXPIRES: 01-31-2015

AARON DAVID ANDERSON  
[REDACTED]



(FOLD)

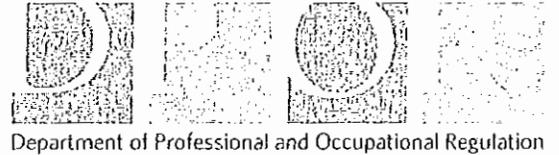
(DETACH HERE)

DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION  
9960 Mayland Dr., Suite 400, Richmond, VA 23233

TRADE DESIGNATIONS  
MASTER ELECTRICIAN

ALTERATION OF THIS DOCUMENT, USE AFTER EXPIRATION, OR USE BY PERSONS OR FIRMS OTHER THAN THOSE NAMED MAY RESULT IN CRIMINAL PROSECUTION UNDER THE CODE OF VIRGINIA.

Commonwealth of Virginia  
Department of Professional and Occupational Regulation  
9960 Mayland Drive, Suite 400  
Richmond, Virginia 23233-1485  
(804) 367-8511  
[www.dpor.virginia.gov](http://www.dpor.virginia.gov)



**Board for Contractors  
REQUIREMENTS FOR QUALIFIED INDIVIDUALS**

The Virginia Board for Contractors requires licensed contracting firms to identify a Qualified Individual for each license classification and specialty designation printed on the license. The Qualified Individual in a Class C business must have at least 2 years of experience in the appropriate classification or specialty designation. The Qualified Individual in a Class B business must have at least 3 years of experience in the appropriate classification or specialty designation. The Qualified Individual in a Class A business must have at least 5 years of experience in the appropriate classification or specialty designation.

For all new applications for licensure, applications for specialties to existing licenses, or changes to an existing Qualified Individual, received after December 1, 2012: In addition to the number of years of experience required, Qualified Individuals will be required to hold a valid Individual License or Certification issued by the Board for Contractors, hold a valid certification from another agency, board or third-party organization, or successfully complete a technical examination in order to meet the requirements set forth in the *Board for Contractors Regulations*.

***Requirements for Trade-Related License Classifications and Specialties***

Qualified Individual for the electrical (ELE), plumbing (PLB), and HVAC (HVA) license classifications, as well as the gas-fitting (GFC), liquefied petroleum gas contracting (LPG), and natural gas fitting provider contracting (NGF) specialty designations, must hold a current Master Tradesman Card issued by the Board for Contractors in the appropriate classification/specialty.

***Licensure and Certification Requirements for Non-Trade Related Classifications and Specialties***

Qualified Individuals for the asbestos (ASB), blast/explosive (BEC), fire sprinkler (SPR), elevator/escalator (EEC), lead abatement (LAC), manufactured home (MHI), radon mitigation (RMC), sewage disposal systems (SDS), and water well/pump (WWP) specialty designations are required to meet the following additional requirements:

**Asbestos Contracting (ASB)**

Business applying for ASB specialty designation must:

1. Employ a Qualified Individual who has a valid Asbestos Supervisor's License Issued through the Board for Asbestos, Lead, and Home Inspectors (ALHI); telephone 804.367.8595.
2. Upon receipt of the Qualified Individual's Asbestos Supervisor's License submit a Contractors License application or Additional License Classification/Specialty Designation application along with fee to DPOR, 9960 Mayland Drive, Suite 400, Richmond, VA 23233-1485
3. Upon issuance of the Contractors License, contact the Board for Asbestos, Lead, and Home Inspectors (ALHI) at 804.367.8595 to apply for a (ALHI) Contractors License.

RECEIVED  
APR 12 2013  
ELECTRICAL  
DIVISION

You will also need an individual electrician's license to do electrical work in West Virginia. To get an application, contact:

 **State Fire Marshal**  
Electrician's License Section  
1207 Quarrier Street, 2nd Floor  
Charleston, WV 25301  
(304) 558-2191  
Fax: (304) 558-2537  
<http://www.wvfiremarshal.org>  
E-mail: [info@wvfiremarshal.org](mailto:info@wvfiremarshal.org)

The Section issues master, journeyman, and specialty electrician's licenses. You have to pass an exam to get a license. To qualify for the master exam you need five years in residential, commercial, and industrial electrical work. To qualify for the journeyman exam you need to complete one of the following:

- four years of work experience under a master electrician
- an approved apprenticeship and training program
- 1,080 hours of approved vocational education

To qualify for a specialty exam you need at least two years of experience in the specialty. You can apply one year of approved education to the work requirement.

RECEIVED

APR 18 2006

ELECTRICAL  
SECTION

### Continuing Education

Three hours of CEU are required to be completed every 2 years. We offer this online.

### Exam Details

- The Journeyman electrician portion has 70 questions and a time limit of 210 minutes
- The master electrician portion has 90 questions and a time limit of 270 minutes.
- Both examinations require a 70% to pass.
- The fee for the journeyman portion is \$100 while the master portion has a fee of \$125.
- Topics on the examinations include general electrical knowledge; requirements for electrical installations; electrical-electronic fundamentals; services, feeders, and branch circuits; service and feeder requirements; grounding and bonding; conductors and cables; raceways and boxes; special occupancies; special equipment; electrical signs and outline lighting; motors and controls; utilization equipment; lighting; general low voltage requirements; communication systems; fire detection and alarm systems; standards of practice; standards of conduct; renewal and reinstatement; definitions; qualification for licensure; and revocation of licensure.

### Books and References for the Exam

The following references are permitted to be taken into the examination. These references may be tabbed (with a permanent index tab) and highlighted. You can purchase the references from our online bookstore or by calling 1-800-952-0910.

- Individual License and Certification Regulations
- 2009 National Electrical Code
- American Electrician's Handbook

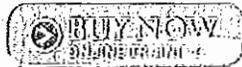
### Exam Review, Training, Education

We currently offer 2 options to help you pass your electrical exam. Our complete exam review includes practice tests, highlighting guides, calculations, test taking tips and instructor support. The practice tests only option includes practice tests, test taking tips and instructor support.

Our electrical practice includes over 400 real NEC questions. Each time you take the practice test, the questions are randomly generated from our database. Therefore, you will never see the same test twice, guaranteeing you the best review possible for your examination.

Online Practice Tests: \$99

Online Exam Prep: \$199



### Reference Books

Our online store offers hundreds of books at the best pricing possible.

To find books for your exam, *click here* and then click "State Exam".

Design and Content Copyright 2013, © Home Prep Education, Inc.

Online - [Click here to get help](#)



IES Commercial, Inc.  
DCJS 11-5420

1010 Bowen Parkway  
Suite A  
Suffolk, VA 23435  
T: 757 424 5164  
F: 757 424 7145  
www.ies-co.com

September 17, 2013

Aaron Anderson  
[Redacted]

Re: Letter of Employment History: Aaron Anderson XXX-XX [Redacted]

To Whom It May Concern:

I, the below signed hereby certify that Aaron Anderson was employed full time from 09/05/01 to 04/12/12 by IES Commercial, Inc. working in the field with his tools. Mr. Anderson has completed 21,728 working hours of electrical experience during his employment. He continuously performed supervised commercial electrical installations and/or alterations, subject to the National Electrical Code.

Signed this 18 day of September 2013.

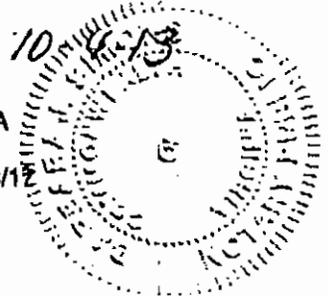
IES Commercial, Inc.

*Robert W. Warwick*

Robert W. Warwick, P.E.  
MD License #: 11672, exp: 8-18-2014, category: 04

*Barbara J. Simons*

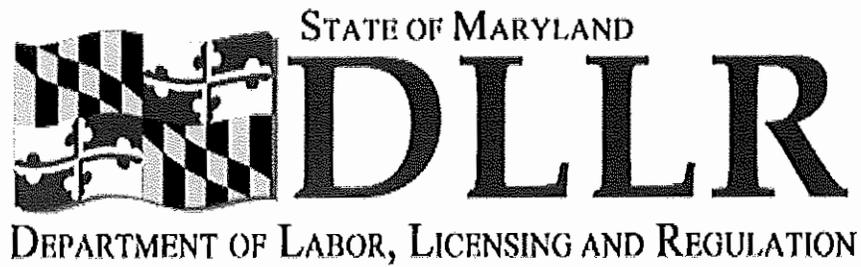
BARBARA J. SIMONS  
NOTARY PUBLIC  
COMMONWEALTH OF VIRGINIA  
REG. # 211424  
MY COMMISSION EXPIRES 02/28/17



RECEIVED

OCT 04 2013

ELECTRICAL  
DIVISION



**Results for Active Licensed Master Electricians: 1**

The following results do not include current licensees who are on inactive status.

| Name                         | Address | City | State | Zip | Expiration | Category           | Insured | Reg. # |
|------------------------------|---------|------|-------|-----|------------|--------------------|---------|--------|
| ROBERT<br>WILLIAM<br>WARWICK |         |      |       |     | 2014-08-18 | QUALIFIED<br>AGENT | INSURED | 11672  |

[NEW SEARCH FOR ACTIVE LICENSED INDIVIDUALS]

---

[\[Home\]](#) [\[Return to Licensing Queries\]](#)

---



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

Date Mailed from BCC: 10-29-2013

Aaron D. Anderson



Document E-13-74  
Exam Applicant Review

**NOTICE OF MICHIGAN ELECTRICAL ADMINISTRATIVE BOARD MEETING**

You are hereby notified that in accordance with the Administrative Procedures Act, 1969 PA 306, MCL 24.201 *et seq.*, and the Electrical Administrative Act, being 1956 PA 217 MCL 338.881 *et seq.*, you are scheduled to appear before the Michigan Electrical Administrative Board on:

Date: November 7, 2013  
Time: 9:30 a.m.  
Location: Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes  
2501 Woodlake Circle, Conference Room 3  
Okemos, MI 48864

This notice is to provide you the opportunity to provide testimony to the board regarding your experience and eligibility to sit for the Master Electrician exam. If you wish to offer any document(s) into evidence, you must file the documentation with Electrical Division prior to the meeting or bring fifteen (15) copies of the information you wish to enter for the board's consideration. In the event you are unable to attend the meeting or you choose not to appear before the board, please contact the Electrical Division in advance of the meeting. In the event that you fail to appear at the meeting as scheduled, a decision may be entered in your absence.

Accompanying this notice is a report outlining our findings and recommendation based upon the Electrical Administrative Act being 1956 PA 217 MCL and the documentation you have provided at the time of mailing. Any questions regarding this matter may be directed to the Electrical Division at (517) 241-9320.

  
Dan O'Donnell, Chief, Electrical Division

10/29/2013  
Date

*Providing for Michigan's Safety in the Built Environment*

Exam Applicant Review  
Aaron D. Anderson  
Document No. E-13-74  
November 7, 2013  
Page 2 of 4

**PROOF OF SERVICE**

I hereby state, to the best of my knowledge, information, and belief, that a copy of the foregoing document was served on this date upon all parties and/or attorneys of record in this matter by email to those parties employed by the State of Michigan and by first class mail to the remaining parties at their respective addresses as disclosed below.

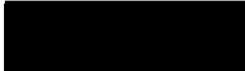
*Toni Nelson*

\_\_\_\_\_  
Toni Nelson, Secretary  
Electrical Division  
Bureau of Construction Codes

*10-29-2013*

\_\_\_\_\_  
Date

Aaron D. Anderson



BCC Administration



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

November 7, 2013

E-13-75

TO: Members of the State Electrical Administrative Board  
FROM: Dan O'Donnell, Chief, Electrical Division  
SUBJECT: Master electrician examination application

**APPLICANT REPRESENTATIVE:**

Keith S. Shuflit

**PROJECT:**

N/A

**AUTHORITY:**

The Michigan Electrical Administrative Act, 1956 PA 217 of the Michigan Compiled Laws.

The Electrical Administrative Board General Rules

**REQUEST:**

Request to petition the Electrical Administrative Board to sit for the master electrician examination.

**APPLICABLE RULE:**

1956 PA 217 MCL, 338.883a Sec 3a. (c), MCL 338.883c Sec. 3c. (1) a,b,c,d,e, and Electrical Administrative Board General Rules, R338.1004a Rule 4a. (1), (a), (b), (2), 338.1006a Rule 6a. (1), (2)

**FINDINGS:**

Mr. Shuflit submitted an application to sit for the master electrician examination. The information Mr. Shuflit provided indicates that he completed an electrical apprenticeship in 1993 through IBEW Local 134 in Chicago, Illinois. Mr. Shuflit's documentation

*Providing for Michigan's Safety in the Built Environment*

shows in excess of 28000 hours of electrical experience working under the direction of electrical contractor's signatory to the IBEW. Mr. Shufit currently holds an electrical contractors and master electrician license in the State of Colorado.

**RECOMMENDATION:**

In accordance with the acts and rules listed above staff concludes that Mr. Shufit meets the requirements to sit for the State of Michigan master electrician examination and recommends that the board approve his application.

**Application for Master Electrician Examination**  
 Michigan Department of Licensing and Regulatory Affairs  
 Bureau of Construction Codes / Electrical Division  
 P.O. Box 30255, Lansing, MI 48909  
 517-241-9320  
 www.michigan.gov/bcc

Agency Use Only

6218197

**Examination Fee: \$100.00 (nonrefundable)**

|   |  |
|---|--|
| Authority: 1956 PA 217<br>Completion: Mandatory<br>Penalty: Examination will not be given | LARA is an equal opportunity employer/program. Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. |
|---|--|

**Instructions:**

- See back of application for qualifications for examination.
- Complete and sign application. Type or print in ink.
- Application and fee must be received 20 business days prior to the examination date.
- Applicant must not be less than 22 years of age.
- Provide *original notarized* statements from current and past employers documenting required experience with this application. Statements must be on employers' letterhead stationery and include the dates and hours of employment (see qualifications on back of application) and names and license numbers of supervising master electricians. Be sure that all statements are *notarized*.
- Enclose a check made payable to the State of Michigan.
- Mail completed application, required documents, and payment to the address listed above.

Tran Info: 103 18976322-1 10/02/13  
 Chk#: 1035 Amt: \$100.00  
 ID: SHUFLIT ELECTRIC LLC

**Applicant Information**

|   |  |                                     |   |
|---|--|-------------------------------------|---|
| NAME (Last Name, First Name, Middle Initial)<br><b>Shufflit, Keith, S</b> |  | DATE OF BIRTH<br>[REDACTED]         | LAST 4 DIGITS OF SOCIAL SECURITY NUMBER*<br>XXX-XX-[REDACTED] |
| ADDRESS<br>[REDACTED]   | CITY<br>[REDACTED]   | TOWNSHIP                            |   |
| COUNTY<br>[REDACTED]  | STATE<br>[REDACTED]  | ZIP CODE<br>[REDACTED]              | TELEPHONE NUMBER (Include Area Code)<br>[REDACTED]            |
| JOURNEYMAN LICENSE NUMBER<br><b>CO master# 000030632</b>                  | NUMBER OF YEARS JOURNEYMAN LICENSE HELD<br><b>2 yrs with CO master</b> | LICENSING JURISDICTION<br><b>CO</b> |   |

Have you previously taken this examination?  Yes  No

If examination was not administered by the State Electrical Division provide the licensing entity:  
 City of \_\_\_\_\_ Township of \_\_\_\_\_

**Examination Site**

Examinations are given at the sites listed below. Refer to the enclosed "Schedule of Electrical Board Meetings and Licensing Examinations" for examination dates. Please check below the site you wish to be examined at and indicate a preference of examination month. If approved for examination, an admission card will be mailed to you approximately 10 days prior to the examination date. If the examination you have selected is full, you will be scheduled for the next available examination at your preferred site.

|   |                        |
|---|------------------------|
| <u>Preferred Site</u>                       | <u>Preferred Month</u> |
| <input checked="" type="checkbox"/> Lansing | <u>November</u>        |
| <input type="checkbox"/> Escanaba           | _____                  |

OCT 03 2013  
 ELECTRICAL DIVISION

If you have a disability and require an accommodation to take the examination, please submit written documentation from a professional (education professional, doctor, psychologist, psychiatrist) to certify that your disabling condition requires the requested test accommodation. Forms are available from this office.

**Certification and Signature**

I certify the information is true and accurate to the best of my ability and I have the experience required for this examination. I further understand falsification of any statement is cause for rejection of this application or revocation of license, if issued. If granted a master's license, I swear I will not represent as master more than one person, firm, or corporation and if I resign as master I will notify the electrical administrative board within 10 business days.

|  |                        |
|--|------------------------|
| APPLICANT'S SIGNATURE<br><i>Keith Shufflit</i> | DATE<br><b>10/1/13</b> |
|--|------------------------|

\*This information is confidential. Disclosure of confidential information is protected by the Federal Privacy Act.

SHUFLIT ELECTRIC, LLC  
2406 Waneka Lake Trail Lafayette, CO 80026



September 30, 2013

TO WHOM IT MAY CONCERN,

My name is Keith Shufflit and have just recently moved to Portage, MI. I've been an electrician starting in 1989, starting with the apprentice program for IBEW Local Union #134. I was a supervising electrician/electrical contractor between the years of 2005-2009.

I'm currently a master electrician/electrical contractor for the state of CO from 10/21/2011 to the present time.

Colorado Master Electrician# 000030632

Included are copies of my licenses, certificates, etc. The letter from IBEW Local #134 has the hours for as far back as was on the computer. Everything else going further back have been archived. I've included my pension plan as it states all the hours worked with IBEW, which goes back to my starting year.

I've also included copies of Affidavit of Experience for the last two employers I worked for before I moved to Colorado. The original copies are with the state of Colorado when I applied for the masters license.

For the time working for myself, I've worked on commercial and residential jobs with myself as the only electrician.

Kind Regards,

A handwritten signature in black ink that reads "Keith Shufflit".

Keith Shufflit



RECEIVED

OCT 03 2013

ELECTRICAL  
DIVISION

CHRISTINA M. FREDERICKS  
NOTARY PUBLIC, KALAMAZOO Co, MI  
My COMMISSION EXPIRES FEB. 13, 2019  
ACTING IN THE COUNTY OF Kalamazoo

# International Brotherhood of Electrical Workers

LOCAL NUMBER 134  
600 WEST WASHINGTON BOULEVARD  
CHICAGO, ILLINOIS 60661-2490



August 18, 2006

TO WHOM IT MAY CONCERN:

This is to certify that the bearer, Keith S. Shuflit, social security number [REDACTED] and card number D838395 was initiated into Local 134 International Brotherhood of Electrical Workers as a class "A" Apprentice on November 9, 1990.

He successfully completed his Apprenticeship and passed the Journeyman Wireman examination on November 11, 1993.

His seniority date is April 10, 1985.

He applied for and was granted a Participating Withdrawal Card from this local union effective July 1, 2006.

Attached is a list of hours this member his worked in this IBEW Local Union.

Fraternally,

A handwritten signature in cursive script that reads "Michael Fitzgerald".

Michael Fitzgerald  
Business Manager/Financial Secretary

RECEIVED

OCT 03 2013

ELECTRICAL  
DIVISION

**ECA & Local 134 IBEW**  
**Joint Pension Trust of Chicago**  
**221 N. LaSalle, Suite 200, Chicago, IL 60601**  
**ESTIMATED PENSION CREDIT STATEMENT**  
**Pension Plan No. 2**  
**As of December 31, 2011**

—  
—  
—  
—  
—

9281

Page 1 of 2

Name: Keith Shufflit

August 14, 2012

Address: [REDACTED]

Social Security #: XXX-XX-[REDACTED]

Date of Birth: [REDACTED]

| Year | Credited Hours | Eligibility Hours | Banked Hours | Banked Hours Used | Eligibility Service | Credited Service | (\$)<br>Estimated<br>Accrued<br>Monthly<br>Pension | Comments |
|------|----------------|-------------------|--------------|-------------------|---------------------|------------------|--|----------|
| 1989 | 742.00         | 742.00            | 0.00         | 0.00              | 1                   | .4638            | \$24.35  |          |
| 1990 | 1,461.00       | 1,461.00          | 0.00         | 0.00              | 1                   | .9131            | \$47.94  |          |
| 1991 | 1,784.00       | 1,784.00          | 0.00         | 0.00              | 1                   | 1.0000           | \$52.50  |          |
| 1992 | 1,791.00       | 1,791.00          | 0.00         | 0.00              | 1                   | 1.0000           | \$52.50  |          |
| 1993 | 1,727.00       | 1,727.00          | 0.00         | 0.00              | 1                   | 1.0000           | \$52.50  |          |
| 1994 | 2,028.00       | 2,028.00          | 0.00         | 0.00              | 1                   | 1.0000           | \$52.50  |          |
| 1995 | 1,870.00       | 1,870.00          | 0.00         | 0.00              | 1                   | 1.0000           | \$52.50  |          |
| 1996 | 1,967.00       | 1,967.00          | 0.00         | 0.00              | 1                   | 1.0000           | \$52.50  |          |
| 1997 | 1,905.00       | 1,905.00          | 0.00         | 0.00              | 1                   | 1.0000           | \$52.50  |          |
| 1998 | 1,960.00       | 1,960.00          | 0.00         | 0.00              | 1                   | 1.0000           | \$52.50  |          |
| 1999 | 1,920.00       | 1,920.00          | 0.00         | 0.00              | 1                   | 1.0000           | \$52.50  |          |
| 2000 | 1,920.00       | 1,920.00          | 0.00         | 0.00              | 1                   | 1.0000           | \$52.50  |          |
| 2001 | 1,920.00       | 1,920.00          | 0.00         | 0.00              | 1                   | 1.0000           | \$52.50  |          |
| 2002 | 1,920.00       | 1,920.00          | 0.00         | 0.00              | 1                   | 1.0000           | \$52.50  |          |
| 2003 | 1,920.00       | 1,920.00          | 0.00         | 0.00              | 1                   | 1.0000           | \$52.50  |          |
| 2004 | 480.00         | 480.00            | 0.00         | 0.00              | 1                   | .3000            | \$15.75  |          |
| 2005 | 972.50         | 972.50            | 0.00         | 0.00              | 1                   | .6078            | \$31.91  |          |
| 2006 | 866.00         | 866.00            | 0.00         | 0.00              | 1                   | .5413            | \$28.42  |          |
| 2007 | 0.00           | 0.00              | 0.00         | 0.00              | 0                   | .0000            | \$0.00   |          |
| 2008 | 0.00           | 0.00              | 0.00         | 0.00              | 0                   | .0000            | \$0.00   |          |
| 2009 | 0.00           | 0.00              | 0.00         | 0.00              | 0                   | .0000            | \$0.00   |          |
| 2010 | 0.00           | 0.00              | 0.00         | 0.00              | 0                   | .0000            | \$0.00   |          |

RECEIVED

OCT 08 2013  
ELECTRICAL  
DIVISION

**ECA & Local 134 IBEW**  
**Joint Pension Trust of Chicago**  
**221 N. LaSalle, Suite 200, Chicago, IL 60601**  
**ESTIMATED PENSION CREDIT STATEMENT**  
**Pension Plan No. 2**  
**As of December 31, 2011**

—  
—  
—  
—

9281

Page 2 of 2

Name: Keith Shuffit

August 14, 2012

Address:



Social Security #: XXX-XX-

Date of Birth:



| Year   | Credited Hours | Eligibility Hours | Banked Hours | Banked Hours Used | Eligibility Service | Credited Service | (\$)<br>Estimated<br>Accrued<br>Monthly<br>Pension | Comments |
|--------|----------------|-------------------|--------------|-------------------|---------------------|------------------|--|----------|
| 2011   | 0.00           | 0.00              | 0.00         | 0.00              | 0                   | .0000            | \$0.00   |          |
| Total: |                |                   |              |                   | 18                  | 15.8260          | \$830.87   |          |

For details regarding any comments that appear above, please refer to your summary plan description.

As of this statement date, you are vested. Please see your summary plan description for vesting details.

This statement is based upon our records of your employment and is subject to audit and verification at the time you apply for a pension benefit. Your eligibility for a pension, and the amount thereof, will be based upon the pension plan in effect when you last work in covered employment.

RECEIVED  
 OCT 03 2013  
 ELECTRICAL  
 DIVISION



Certificate No: ECC93532-4

Richard M. Daley, Mayor

# *Certificate of Registration*

*issued by the*

***Department of Buildings***  
*of the City of Chicago*

RECEIVED  
OCT 03 2013  
ELECTRICAL  
DIVISION

*This is to Certify that  
located at*

**SHUFLIT ELECTRIC - ECC93532  
135 BRITTANY LN. LAFAYETTE, CO 80026-**

*having complied with the requirements of Ordinances passed by the City Council of the City of Chicago  
providing for the registration of electrical contractors is hereby recorded as a*

## **REGISTERED ELECTRICAL CONTRACTOR**

**General Electrician**

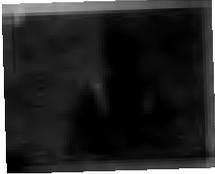
*and is entitled to perform electrical work in the City of Chicago under the Direction of Supervising Electrician  
provided that such work permits are subject to the provisions of all the Ordinances of the City of Chicago  
now in force or which may be hereafter passed. This certificate **EXPIRES** June 30, 2009.*

**SUPERVISING ELECTRICIAN: KEITH S. SHUFLIT - SE6381**

*In Witness Whereof I have hereunto set my hand on December 4, 2008.*

R.L. Rodriguez, Commisioner

**Colorado State  
Electrical Board**



License No.  
000030632

Discipline

Master Electrician

Issue Date  
10/21/2011

Expiration Date  
09/30/2014

VOID IF ALTERED  
NON-TRANSFERABLE

J/  
1/  
8/  
E/  
E/  
e/  
0/

KEITH SHUFLIT



**STATE OF COLORADO**  
Department of Regulatory Agencies  
Division of Registrations

PRINTED ON SECURE PAPER

ACTIVE  
ELECTRICAL CONTRACTOR

8379  
Number

11/08/2011  
Issue Date

09/30/2014  
Expires

Shufflit Electric, LLC  
Keith Stanley Shufflit

United States

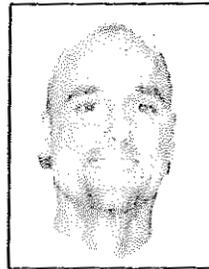
*Gregory Mc Cool*  
Director

*Keith S Shufflit*  
Signature



**City of Chicago  
Department of Buildings**  
Supervising Electrician's License  
Issued : 12/04/2008  
KEITH S. SHUFLIT  
License # : ECC93532  
Expires : 06/30/2009  
**GENERAL ELECTRICIAN**

This license is valid and in force within the City of Chicago in accordance with Chapter 14-12 of the Chicago Building Code approved July 17, 1990 by the City Council of the City of Chicago.  
The face of this card contains a Department of Buildings hologram. If the Hologram is not present, the card has been altered. If you suspect fraudulent use of this card call 312 743-9056.



**City of Chicago  
Department of Buildings**  
Supervising Electrician's License  
Issued : 06/30/2005  
KEITH S. SHUFLIT  
License # : ECC93532  
Expires : 06/30/2006  
**GENERAL ELECTRICIAN**

This license is valid and in force within the City of Chicago in accordance with Chapter 14-12 of the Chicago Building Code approved July 17, 1990 by the City Council of the City of Chicago.  
The face of this card contains a Department of Buildings hologram. If the Hologram is not present, the card has been altered. If you suspect fraudulent use of this card call 312 744-3893.



**City of Chicago  
Department of Buildings**  
Supervising Electrician's License  
Issued : 07/17/2007  
KEITH S. SHUFLIT  
License # : ECC93532  
Expires : 06/30/2008  
**GENERAL ELECTRICIAN**

This license is valid and in force within the City of Chicago in accordance with Chapter 14-12 of the Chicago Building Code approved July 17, 1990 by the City Council of the City of Chicago.  
The face of this card contains a Department of Buildings hologram. If the Hologram is not present, the card has been altered. If you suspect fraudulent use of this card call 312 743-9056.

RECEIVED

OCT 03 2013

ELECTRICAL  
DIVISION

**COPY**

Di Monte Electric, Inc.

353 E. Burlington St. Suite 201  
Riverside Il 60546-2189

office 708.447.3149

fax 708.447.7545

January 17, 2005

Department of Buildings  
Bureau of Licensing & Registration  
City Hall – Room 104  
121 North LaSalle  
Chicago, Illinois 60602

To Whom It May Concern:

The purpose of this letter is to verify employment of Keith Shufflit by Di Monte Electric, Inc. from 1998 to 3/31/04. During his employment he was involved in the installation and alteration of entire wiring systems from commercial to residential.

Sincerely,



Thomas J. Di Monte  
Di Monte Electric, Inc.  
License #92199

RECEIVED

JAN 03 2005

ELECTRICAL  
DIVISION

## AFFIDAVIT OF EXPERIENCE

This form is to be completed by and signed by the employer (must be typewritten or printed legibly in ink).  
The form must be filled in completely or it will be rejected. If the answer is "none" or "does not apply," please state "none" or "n/a."

|   |   |
|---|---|
| BUSINESS NAME:<br><p style="text-align: center;">DI MONTE ELECTRIC, INC.</p>                  | LICENSE NUMBER & STATE OF ISSUE:<br><p style="text-align: center;">ECC92199 CHICAGO, IL</p> |
| BUSINESS ADDRESS:<br><p style="text-align: center;">205 OLMSTED ROAD, RIVERSIDE, IL 60546</p> | BUSINESS PHONE:<br><p style="text-align: center;">(708) 906-1221</p>                        |

|  |   |   |
|--|---|---|
| EMPLOYEE NAME:<br><p style="text-align: center;">KEITH SHUFFIT</p> | BUSINESS EMAIL:<br><p style="text-align: center;">tjd@dimonte.com</p> |   |
| DATE OF HIRE:<br><p style="text-align: center;">09/15/1997</p>     | DATE OF TERMINATION<br><p style="text-align: center;">03/15/2004</p>  | TOTAL TIME WORKED (Specify Hours or Months)<br><p style="text-align: center;">79</p> <input type="checkbox"/> Hours<br><input checked="" type="checkbox"/> Months |

| Provide a breakdown of the experience in hours OR months of total time worked in each area: |       |        |   |
|---|-------|--------|---|
| TYPE OF EXPERIENCE  | HOURS | MONTHS | SUPERVISOR INFORMATION  |
| Residential Wiring  |       | 41     |   |
| Commercial/Industrial   |       | 20     |   |
| Planning & Layout   |       | 18     | SUPERVISOR NAME:<br><p style="text-align: center;">THOMAS J. DI MONTE</p>   |
| Maintenance<br><small>(Provide detailed description of duties on separate sheet)</small>    |       |        | LICENSE NO:<br><p style="text-align: center;">SE4541</p>  |
|   |       |        | STATE:<br><p style="text-align: center;">CHICAGO, IL</p>  |
| Other<br><small>(Explain in detail on a separate sheet)</small>                             |       |        | SUPERVISOR NAME:  |
|   |       |        | LICENSE NO:      STATE:   |
| <b>TOTALS</b><br><small>(cannot exceed total time indicated above)</small>                  |       | 79     | <div style="text-align: right; font-weight: bold; font-size: 1.2em;">RECEIVED</div> <div style="text-align: right; font-weight: bold; font-size: 1.2em;">OCT 09 2013</div> <div style="text-align: right; font-weight: bold; font-size: 1.2em;">ELECTRICAL DIVISION</div> |

I hereby certify that the statements on this affidavit and any attachments are true and accurate to the best of my knowledge. I understand that under CRS 12-23-118(l), providing false information is grounds for denial, suspension, or revocation of an electrical contractor registration.

|  |   |
|--|---|
| Signature of Authorized Electrical Contractor's Representative or Approved Training Director<br> | Date<br><p style="text-align: center;">02/24/10</p>     |
| Print your name:<br><p style="text-align: center;">THOMAS J. DI MONTE</p>                        | Job Title:<br><p style="text-align: center;">VP/SEC</p> |



# Dora

Department of Regulatory Agencies

Department Home | Division Home | Board Home

## Electrical Board

### Licensing Requirements

[Licensing Requirements](#) || [Exam Information](#) || [Temporary Permits](#) || [Apprentice Registration](#)  
[License by Endorsement](#) || [License by Reciprocity](#)

#### LICENSING REQUIREMENTS

##### RESIDENTIAL WIREMAN

Applicants for a Colorado residential wireman's license are required to provide verification of two years of electrical construction wiring experience, for lights, heat, and power; of one, two, three, and four family dwellings.

##### JOURNEYMAN ELECTRICIAN

Applicants for a Colorado journeyman electrician's license are required to provide verification of four years of electrical construction wiring experience, for lights, heat, and power; with a minimum of two years of that time being commercial and/or industrial work. Verification of experience must state the percentage of your time spent performing commercial/industrial wiring, and the percentage of your time spent performing residential wiring.

##### MASTER ELECTRICIAN

Applicants for a Colorado master electrician's license are required to provide verification of five years of electrical experience; four years of that time must be electrical construction wiring, for lights, heat, and power; with a minimum of two years of that time being commercial and/or industrial work. One additional year must be in planning, lay-out, supervising, and installing wiring, apparatus, and equipment for electrical light, heat, and power.

Applicants who hold a Colorado journeyman electrician's license are required to provide verification of one full year of planning and lay-out experience, in addition to the time previously verified.

##### VERIFICATION OF EXPERIENCE FORM

In July 2005, the Colorado State Electrical Board began accepting the [Affidavit of Experience Form](#) instead of work verification letters on company letterhead. **After December 31, 2005, you must use this form to verify work experience.** No other format will be accepted by the Board.

[Back to top](#)

#### EXAM INFORMATION

The electrical licensing examination is now being administered by a private testing agency. Once your application has been approved by the State Electrical Board, you will be sent a candidate handbook, which will explain how to schedule for the exam and the required fee. You will pay for your examination at the testing center the day you take the examination. You must, however, send in the application processing fee with your application.

**NOTE: Positive photo identification must be presented at the time of admission to the electrical examination.**

[Back to top](#)

#### TEMPORARY PERMITS

If you require a temporary work permit, please include the request at the time you submit your application. Only one temporary work permit can be issued to one applicant, and then only at the time of original application. Permits will be issued for a 30-day period only. If, after the expiration of the permit, you have failed for any reason to qualify for licensure, you shall cease and desist from working as a master, journeyman, or residential wireman in the state of Colorado until such time as you are able to pass the exam and qualify for licensure. If you are not already licensed in another category, you must register as an [apprentice](#) and work with supervision.

RECEIVED

OCT 03 2013

ELECTRICAL  
DIVISION

## AFFIDAVIT OF EXPERIENCE

This form is to be completed by and signed by the employer (must be typewritten or printed legibly in ink).  
The form must be filled in completely or it will be rejected. If the answer is "none" or "does not apply," please state "none" or "n/a."

|   |  |
|---|--|
| BUSINESS NAME:<br><i>MARON Electric</i>                     | LICENSE NUMBER & STATE OF ISSUE:<br><i>ECC07652 Illinois</i> |
| BUSINESS ADDRESS:<br><i>5401 West Fargo Skokie IL 60077</i> | BUSINESS PHONE:<br><i>847/626-6500</i>                       |

|                                       |   |  |
|---------------------------------------|---|--|
| EMPLOYEE NAME:<br><i>Keith ShyFit</i> | BUSINESS EMAIL:<br><i>mkeller@maronelectric.com</i> |  |
| DATE OF HIRE:<br><i>3/2005</i>        | DATE OF TERMINATION:<br><i>6/2006</i>               | TOTAL TIME WORKED (Specify Hours or Months)<br><i>12</i><br><input type="checkbox"/> Hours<br><input checked="" type="checkbox"/> Months |

| Provide a breakdown of the experience in hours OR months of total time worked in each area: |            |           |  |
|---|------------|-----------|--|
| TYPE OF EXPERIENCE  | HOURS      | MONTHS    | SUPERVISOR INFORMATION                             |
| Residential Wiring  | <i>N/A</i> |           |  |
| Commercial/Industrial   |            | <i>12</i> |  |
| Planning & Layout   | <i>N/A</i> |           | SUPERVISOR NAME:<br><i>Dave O'Malley</i>           |
| Maintenance<br><small>(Provide detailed description of duties on separate sheet)</small>    | <i>N/A</i> |           | LICENSE NO:      STATE: <i>Local 134, Illinois</i> |
| Other<br><small>(Explain in detail on a separate sheet)</small>                             | <i>N/A</i> |           | SUPERVISOR NAME:<br><br>LICENSE NO:      STATE:    |
| <b>TOTALS</b><br><small>(cannot exceed total time indicated above)</small>                  |            | <i>12</i> | SUPERVISOR NAME:<br><br>LICENSE NO:      STATE:    |

I hereby certify that the statements on this affidavit and any attachments are true and accurate to the best of my knowledge. I understand that under CRS 12-23-118(l), providing false information is grounds for denial, suspension, or revocation of an electrical contractor registration.

|   |   |
|---|---|
| Signature of Authorized Electrical Contractor's Representative or Approved Training Director<br><i>David E O'Malley</i> | Date<br><i>2-17-10</i>                            |
| Print your name:<br><i>DAVID E O'MALLEY</i>   | Job Title:<br><i>Safety Dir. field supervisor</i> |

RECEIVED  
OCT 03 2013  
ELECTRICAL  
ON



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

Date Mailed from BCC: 10-29-2013

Keith S. Shufit



Document E-13-75  
Exam Applicant Review

**NOTICE OF MICHIGAN ELECTRICAL ADMINISTRATIVE BOARD MEETING**

You are hereby notified that in accordance with the Administrative Procedures Act, 1969 PA 306, MCL 24.201 *et seq.*, and the Electrical Administrative Act, being 1956 PA 217 MCL 338.881 *et seq.*, you are scheduled to appear before the Michigan Electrical Administrative Board on:

Date: November 7, 2013  
Time: 9:30 a.m.  
Location: Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes  
2501 Woodlake Circle, Conference Room 3  
Okemos, MI 48864

This notice is to provide you the opportunity to provide testimony to the board regarding your experience and eligibility to sit for the Master Electrician exam. If you wish to offer any document(s) into evidence, you must file the documentation with Electrical Division prior to the meeting or bring fifteen (15) copies of the information you wish to enter for the board's consideration. In the event you are unable to attend the meeting or you choose not to appear before the board, please contact the Electrical Division in advance of the meeting. In the event that you fail to appear at the meeting as scheduled, a decision may be entered in your absence.

Accompanying this notice is a report outlining our findings and recommendation based upon the Electrical Administrative Act being 1956 PA 217 MCL and the documentation you have provided at the time of mailing. Any questions regarding this matter may be directed to the Electrical Division at (517) 241-9320.

  
Dan O'Donnell, Chief, Electrical Division

10/29/2013  
Date

*Providing for Michigan's Safety in the Built Environment*

Exam Applicant Review  
Keith S. Shufit  
Document No. E-13-75  
November 7, 2013  
Page 2 of 4

**PROOF OF SERVICE**

I hereby state, to the best of my knowledge, information, and belief, that a copy of the foregoing document was served on this date upon all parties and/or attorneys of record in this matter by email to those parties employed by the State of Michigan and by first class mail to the remaining parties at their respective addresses as disclosed below.

*Toni Nelson*

\_\_\_\_\_  
Toni Nelson, Secretary  
Electrical Division  
Bureau of Construction Codes

*10/29/2013*

\_\_\_\_\_  
Date

Keith S. Shufit



BCC Administration



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

November 7, 2013

E-13-76

TO: Members of the State Electrical Administrative Board  
FROM: Dan O'Donnell, Chief, Electrical Division  
SUBJECT: Course Approval, Journeyman Electrician Examination Prep Course

**APPLICANT REPRESENTATIVE:**

Jonathon Althouse/Truman Surbrook  
Michigan State University

**AUTHORITY:**

The Michigan Electrical Administrative Act, 1956 PA 217 of the Michigan Compiled Laws and The Electrical Administrative Board General Rules.

**REQUEST:**

Request to petition the Electrical Administrative Board for approval of test prep course.

**APPLICABLE RULE:**

P.A. 217 of 1956 MCL, 338.883d Sec. 3d. (3), and MCL 338.883c (2), The Electrical Administrative Board General Rules, R338.1013a Rule 13a. (2).

**FINDINGS:**

Mr. Althouse submitted a request to the Electrical Division for board approval of a journey electrician test prep course in accordance with 1956 PA 217 MCL and the Electrical Administrative Board General Rules. The Electrical Division has reviewed the course information submitted by the applicant and has determined that the course description and instructor credentials are sufficient.

**RECOMMENDATION:**

*Providing for Michigan's Safety in the Built Environment*

LARA is an equal opportunity employer  
Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.  
P.O. BOX 30254 • LANSING, MICHIGAN 48909  
www.michigan.gov/bcc • Telephone (517) 241-9302 • Fax (517) 241-9570

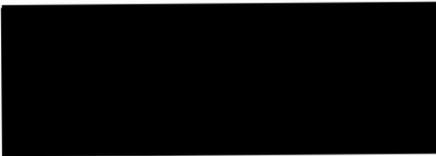
Staff recommends approval of the journey electrician test prep course submitted by Mr. Althouse on behalf of Michigan State University.

The course is 30 hours in length and is 100% online. The syllabus is attached, as a pdf.

If you would like to have access to the course, use the following instructions:

Below are the instructions for setting up a community ID and password and how to access the courses for Michigan State Universities Online Electrical Apprenticeship Program. If you have any question please contact me.

Jonathan Althouse  
Michigan State University  
Biosystems & Agricultural Engineering Department



**Syllabus**  
**ET 044**  
**Journey Examination Preparation - 30 hours**

**OBJECTIVES OF COURSE:**

1. Know the qualifications to take the State of Michigan Journey Electrician Examination.
2. Understand the State Public Acts and administrative rules that regulate electrical wiring in Michigan.
3. Be able to apply Ohms Law, power law to any single-phase or three-phase circuit.
4. Solve for current, voltage and power for transformers, identify common electrical systems.
5. Determine the size of conductor for a circuit considering ambient temperature and more than three conductors in a raceway, cord or cable.
6. Calculate the voltage drop on a length of conductor.
7. Determine the minimum permitted service entrance conductor size and identify key *National Electrical Code* references that apply to electrical service entrances and feeders.
8. Explain the purpose and the basic requirement of electrical system grounding, bonding and equipment grounding and determine the minimum permitted conductor size for each.
9. Find Code requirements for the installation and use of the common electrical conduits, tubings and cables used in the electrical trade.
10. Determine the minimum size conduit, tubing, device box, pull box and conduit body for various applications.
11. Know the requirements for appliance circuits, and the placement of receptacle and lighting outlets in a dwelling as well as the required circuits.
12. Explain the requirements for GFCI and AFCI protection of circuits. Also, be able to identify a tamper-resistant, weather-resistant and an isolated ground receptacle.
13. Read and explain the use of the information on motor nameplate.
14. Size equipment and properly place equipment for a branch circuit that contains a single motor or air conditioner.
15. Begin to understand basic motor control diagrams.
16. Find Code information as it relates to special locations and occupancy such as, but not limited to, swimming pools, hazardous locations, health care facilities, transformers, temporary wiring and places of assembly.

**NECESSARY CLASS ITEMS:**

**Text:** You will need to refer to the following text book for lectures, completion of sample problems and for the final exam.

- *2011 National Electrical Code*, National Fire Protection Association (NFPA).
- *Interpreting the National Electrical Code - 9th Edition*, Delmar Cengage Publishers

**Calculator:**

You will need a calculator to work calculations for lectures, completion of sample problems and for the final exam.

**SUGGESTED CLASS ITEMS:**

You will be referring to the following text book for lectures.

- *2009 Michigan Residential Code*, International Code Council (ICC).

**COURSE STRUCTURE:**

This course consists of ten lessons and a final exam. Each lesson, in this course, consists of background reading material, a lecture and student practice problems. Some of the lessons have hands-on activities that are to be completed, then self-checked. It is anticipated that 30 hours total will be required to complete this course.

Background readings are from *Tech Notes* and the text *Interrupting the National Electrical Code*. *Tech Notes* are papers dealing with specific subjects. Some *Tech Notes* will have much more detail than is required for the topic. You may use these same *Tech Notes* in later lessons and courses.

The student practice problems and hands-on activities are designed for the apprentice to apply the topics in the lesson. These practice problems and hands-on activities are not graded, but are intended as a learning aid. Upon completing a problem set, you will be shown the answers and the method by which each question was answered. The practice problems and hands-on activities will help the apprentice judge their abilities against the course objectives. When the apprentice is ready, they may attempt the final exam, to determine if they can show proficiency in the subject matter.

Apprentices may complete course requirements at their own personal pace, however, they will be limited to a **maximum of six months** to complete an individual class. After six months, the student will be dis-enrolled in the class. The apprentice will need to re-enroll in the course and pay the course tuition fee again, if they desire to continue in MSU's apprenticeship program.

**PASSING THE COURSE:**

To pass this course and to move on to a more advanced course, apprentices **must** score at least a 75% on the final exam. If the apprentice fails the examination, they will have one opportunity to re-study the course material and take a second examination. If a student is not successful on the second examination, the apprentice must re-enroll in the course and pay the course tuition fee again, to continue in MSU's apprenticeship program. When a passing grade is achieved, notify the course instructor, via an email.

**FINAL EXAM:**

- Final Exam "A" will consist of 80 questions. The questions will be similar in nature to the student practice problems and activities.
- Have your Code book available, it may be necessary to complete the exam.
- You will be given only **two hours** to complete the exam. It is suggested that students block out the appropriate amount of time to minimize interruptions and distractions. Once you open the exam, your two hours start.
- You will know your score upon completion of the exam.
- Final Exam "B" is **only** taken if the student does not achieve a passing score on the Final Exam A.

**STUDY HINTS:**

To be successful at understanding the course material, the following method is suggested.

1. First, skim through the reading assignments to become familiar with the material.

2. Second, view the online lecture. Make sure you have your calculator, National Electrical Code book, and reading exercises handy. Have a notepad and work the examples as they are presented, to re-enforce the concepts. Take notes during the online lecture to help you recall topics at a later time.
3. Third, read the Tech Notes and any other reading assignments, to aid in comprehending the material.
4. Finally, answer the student practice questions and hands-on activities.

**QUESTIONS:**

Apprentices and instructors may not be online at the same time. However, if you have any questions about the course material, there is a discussion board that will allow for interaction between the learners and course instructors. The interaction may not happen in real-time, but rather in a delayed format. Under most conditions, questions will be answered electronically within two business days, of posting a question.

**COURSE OUTLINE:**

|      | Topic   | Reading Assignment   |
|------|---|--|
|      | Introduction  | -----  |
| I    | Exam Preparation  | Tech Notes 105   |
| II   | Laws and Rules Regulating Electrical Wiring in Michigan       | Tech Notes 100, 107 & 252.   |
| III  | Electrical Fundamentals                                       | Text pages 1 - 15 & 271 - 275                                      |
| IV   | Branch Circuit and Feeder Conductors                          | Text pages 61 - 68, 76 - 77 & 216 - 219                            |
| V    | Electrical Service Entrances and Feeders                      | Text pages 99 - 101 & 136 - 140                                    |
| VI   | System Grounding, Bonding & Equipment Grounding               | Text pages 159 - 164 & 166 - 179                                   |
| VII  | General Wiring Materials and Enclosures for Conductors        | Text pages 19 - 26, 51 - 61 & 68 - 76                              |
| VIII | General Wiring, Receptacle, Lighting and Appliance Circuits   | Text pages 93 - 99, 101 - 103, & 106 - 110                         |
| IX   | Branch Circuits for Electric Motors and Air Conditioners      | Text pages 233 - 235, 239 - 246 & 248 - 250                        |
| X    | Electrical Requirements for Special Occupancies and Equipment | Text pages 103 - 106, 163 - 168, 277 - 281, 305 - 317, & 333 - 341 |
| XI   | Final Exam  | -----  |



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

Date Mailed from BCC: 10-29-2013

Jonathon Althouse  
Michigan State University



Document E-13-76  
Course Review

**NOTICE OF MICHIGAN ELECTRICAL ADMINISTRATIVE BOARD MEETING**

You are hereby notified that in accordance with the Administrative Procedures Act, 1969 PA 306, MCL 24.201 *et seq.*, and the Electrical Administrative Act being 1956 PA 217 MCL you are scheduled to appear before the Michigan Electrical Administrative Board on:

Date: November 7, 2013  
Time: 9:30 a.m.  
Location: Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes  
2501 Woodlake Circle, Conference Room 3  
Okemos, MI 48864

This notice is to provide you the opportunity to provide testimony to the board regarding proposed course. If you wish to offer any document(s) into evidence, you must file the documentation with Electrical Division prior to the meeting or bring fifteen (15) copies of the information you wish to enter for the board's consideration. In the event you are unable to attend the meeting or you choose not to appear before the board, please contact the Electrical Division in advance of the meeting. In the event that you fail to appear at the meeting as scheduled, a decision may be entered in your absence.

Accompanying this notice is a report outlining our findings and recommendation based upon the Electrical Administrative Act being 1956 PA 217 MCL and the documentation you have provided at the time of mailing. Any questions regarding this matter may be directed to the Electrical Division at (517) 541-9320.

  
Dan O'Donnell, Chief, Electrical Division

10/29/2013  
Date

*Providing for Michigan's Safety in the Built Environment*

Course Review  
Jonathon Althouse  
Document No. E-13-76  
November 7, 2013  
Page 2 of 3

**PROOF OF SERVICE**

I hereby state, to the best of my knowledge, information, and belief, that a copy of the foregoing document was served on this date upon all parties and/or attorneys of record in this matter by email to those parties employed by the State of Michigan and by first class mail to the remaining parties at their respective addresses as disclosed below.

*Toni Nelson*

\_\_\_\_\_  
Toni Nelson, Secretary  
Electrical Division  
Bureau of Construction Codes

*10-29-2013*

\_\_\_\_\_  
Date

Jonathon Althouse  
Michigan State University



BCC Administration



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

November 7, 2013

E-13-77

TO: Members of the State Electrical Administrative Board  
FROM: Dan O'Donnell, Chief, Electrical Division  
SUBJECT: Course Approval, Electrical Journeyman Examination Prep Course

**APPLICANT REPRESENTATIVE:**

Larry Van Wert

**AUTHORITY:**

The Michigan Electrical Administrative Act, 1956 PA 217 of the Michigan Compiled Laws and The Electrical Administrative Board General Rules.

**REQUEST:**

Request to petition the Electrical Administrative Board for approval of test prep course.

**APPLICABLE RULE:**

P.A. 217 of 1956 MCL, 338.883d Sec. 3d. (3), and MCL 338.883c (2), The Electrical Administrative Board General Rules, R338.1013a Rule 13a. (2).

**FINDINGS:**

Mr. Van Wert submitted a request to the Electrical Division for board approval of a journey electrician test prep course in accordance with 1956 PA 217 MCL and the Electrical Administrative Board General Rules. The Electrical Division has reviewed the course information submitted by the applicant and has determined that the course description and instructor credentials are sufficient.

**RECOMMENDATION:**

Staff recommends approval of the journey electrician test prep course submitted by Mr. Van Wert.

*Providing for Michigan's Safety in the Built Environment*

## Lawrence L. Van Wert

Home/Office  
[REDACTED]

Cellular  
[REDACTED]

Fax  
[REDACTED]

E-mail Address:  
[REDACTED]

Web Site Addresses:

[www.vanwertelectric.com](http://www.vanwertelectric.com)

[www.electrotechinstitute.com](http://www.electrotechinstitute.com)

### PERSONAL INFORMATION

Age [REDACTED]

Date of Birth [REDACTED]

Place of Birth [REDACTED]

Electrical Licenses Michigan Class 3 Electrical Journeyman  
Michigan Class 2 Electrical Masters  
Michigan Class 1 Electrical Contractor

### EMPLOYMENT RECORD

Van Wert Electric L.L.C./ Electro-Tech Institute  
6050 North Seymour  
Flushing, Mich. 48433

12/69 – Present

Industrial Controls – 45 years  
Industrial Maintenance – 45 years  
Commercial – 54 years  
NEC Training – 44 years  
Controls Training – 44 years  
Programmable Controllers Training – 42 years  
Consultants – 38 years

Grand Blanc Township  
G-5375 Saginaw St.  
Grand Blanc, Mich. 48439

4/98 – 11/02 - Retired

Electrical Inspector  
Electrical Plan Review

Flint Township  
1490 S. Dye Rd.  
Flint, Mich. 48532

10/99 – 06/04 - Retired

Electrical Inspector  
Electrical Plan Review

## **EMPLOYMENT RECORD CONTINUED**

|  |   |
|--|---|
| Construction Code Authority<br>Lapeer County<br>Lapeer, Mich. 48446<br>2/99 – 04/01 - retired                          | Electrical Inspector<br>Electrical Plan Review  |
| Vienna Township<br>Genesee County<br>11/01 – 08/03 - retired   | Electrical Inspector<br>Electrical Plan Reviewer  |
| Thetford Township<br>Genesee County<br>11/01- 05/02 - retired  | Electrical Inspector<br>Electrical Plan Reviewer  |
| Regional Inspections<br>Multi-County<br>6/00 – 11/03 - retired   | Electrical Inspector<br>Electrical Plan Reviewer  |
| General Motors Corporation - Delco/Delphi/Buick<br>1300 North Dort Hwy.<br>Flint, Mich 48502<br>12/64 – 4/98 - retired | UAW Electrician<br>Engineering Consultant<br>Trainer of Programmable Controllers Allen Bradley<br>Trainer for the National Electrical Code<br>Floor Consultant for Maintenance<br>Trainer of Power Facilities<br>Industrial Safety Trainer<br>Motors and Motor Controls Trainer |

## **EDUCATIONAL BACKGROUND**

### **Graduate:**

Ferris State University  
Bachelor of Science  
Industrial/Technical Education, Electrical and Electronic  
Post Secondary

### **Teaching background:**

Flint Community Schools – Flint, Michigan  
Substitute teacher  
Mott Community College – Flint, Michigan  
Electrical Department  
National Electrical Code  
Electrical House Wiring to GED students  
Mott Adult Education Programs – Flint, Michigan  
Industrial Safety  
National Electrical Code  
Electrical House Wiring  
Digital Electronics  
Basic Electrical Fundamentals  
Baker College – Flint, Michigan  
Direct and Alternating Fundamentals  
Ross Learning Center – Flint, Michigan  
National Electrical Code  
Independent Instruction – Electro Tech Institute, Flushing, Michigan  
National Electrical Code

Programmable Controllers – Allen Bradley Specialist  
Basic Electricity/Electronics  
University of Michigan M-TEC – Southfield, Michigan  
Training of Ford Motor Company electricians to pass the State Electrical License Test  
General Motors Corporation – Flint, Michigan  
Programmable Controllers – Allen Bradley Specialist  
Board level repairs – electronics  
National Electrical Code  
Motors and Motor Controls  
Basic Electricity  
Digital Electronics  
High Voltage Electrical classes  
Industrial Safety  
Set up of the programs for journeymen and apprentices throughout GM  
Robotics and vision systems  
Instructor of the National Electrical Code since 1967  
General Motors  
Ford Motor Company  
Chrysler Corporation  
3-M Corporation  
Mott College  
Mott Adult High School  
Train-the-Trainer, Sarasota Florida  
Independent training at our training facility

**Author:**

Users Guide to Understanding the 2008 National Electrical Code

**Member of the following**

**IAEI:**

International Association of Electrical Inspectors

**SMBOCA:**

Southern Michigan Building Officials Code Authority

**FECA:**

Flint Electrical Contractors Association

**GECA:**

Genesee Electrical Contractors Association

**NEMA:**

National Electrical Manufacturers Association

**NECA:**

National Electrical Contractors Association

**IEEE:**

Institute of Electrical and Electronic Engineers

**GCBOCA:**

Genesee County Building Officials Code Authority

**CCA:**

Construction Code Authority of Lapeer County

**MDHA:**

Michigan Duck Hunters Association

**DU:**

Ducks Unlimited

**FRPC:**

Flushing Rifle and Pistol Club

**NRA:**

National Rifle Association

# **NATIONAL ELECTRICAL CODE ELECTRICAL EXAMINATION PREPARATION AND RETESTING CLASS FOR JOURNEYMEN LICENSES**

## ***CURRICULUM:***

Students shall be taught the National Electrical Code and how to utilize the book in finding answers to questions as well as memorizing specific Code rules and regulations. They will also get the standards in training for solving Ohm's law problems as well as common knowledge material not related to in the Code Book. Training and discussions shall be based upon the code articles, how they are interpreted and how they relate with each other. Training shall also include referencing new changes to the code which are pertinent to understanding.

The study of the Code shall cover the following subjects, but in a designed order for training purposes.

S.O.M. Part 8 Electrical Rules, 1 & 2 Family Dwelling Electrical Rules, PA 217, and PA 230 as relating to the State Electrical Rules

Chapter 1: GENERAL REQUIREMENTS

Chapter 2: WIRING AND PROTECTION

Chapter 3: WIRING METHODS AND MATERIALS

Chapter 4: EQUIPMENT FOR GENERAL USE

Chapter 5: SPECIAL OCCUPANCIES

Chapter 6: SPECIAL EQUIPMENT

Chapter 7: SPECIAL CONDITIONS

Chapter 8: COMMUNICATIONS SYSTEMS

Appendix A: OTHER PUBLICATIONS RELATING TO NFPA-70

Appendix C: CONDUIT FILL

Appendix D: EXAMPLES

## ***LEARNING OBJECTIVE:***

The objective is to make the student feel comfortable when moving about the contents of the Code Book looking for information and to have a solid understanding of the Code.

## ***EXPECTED OUTCOME:***

After completing the course, the student will have the knowledge necessary to successfully retake the State examination for Journeyman's license, understanding the Code Book well enough to take that examination.

## ***PREQUISITES:***

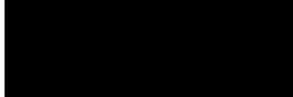
Students who partake of this course should have the equivalent of an apprentice license in electrical from the State of Michigan, a municipality having electrical inspections and testing, or a reciprocal council.

## ***COMPLETION REQUIREMENTS:***

Students partaking of the class for rewriting the journeyman examination shall complete thirty hours of contact class time.

## ***CLASS ORIGINATOR:***

*Lawrence L. Van Wert  
Van Wert Electric L.L.C.*



# TEST PREP CLASS FORMAT- JOURNEYMAN

## **Session 1:**

### Handouts:

1. SOM Part 8
2. PA 217

### Discussion:

1. Part 8
2. PA 217
3. Internet Address for SOM
4. NEC Chapters, Highlights, and Major Changes

### Homework:

1. Test Prep Class Assignment for Session 2

## **Session 2:**

### Handouts:

1. Electrical Formulas
2. Ohms Law Wheel
3. Series/Parallel Problems
4. Test Prep Class Assignment for Session 3

### Discussion:

1. Recap of Session 1
2. Test Prep Class Assignment for Session 2
3. 110.14 a, b, and c
4. Chapter 3 – Article 300

### Homework:

1. Series/Parallel Problems
2. Test Prep Class Assignment for Session 3

## **Session 3:**

### Handouts:

1. Determining the Number of Current Carrying Conductors
2. Grounding and Bonding Sheet
3. Test Prep Class Assignment for Session 4
4. Wire Temperature Ratings and Terminations Paper

### Discussion:

1. Series/Parallel Problems
2. Test Prep Class Assignment for Session 3
3. 110.26
4. 310.15b2a and Current Carrying Conductors and De-rating
5. T 310.16 Temperature De-rating
6. Grounding and Bonding

### Homework:

1. Test Prep Class Assignment for Session 4
2. Grounding and Bonding Problem

\*\*\*\*\*Quiz Over the Last Two Sessions\*\*\*\*\* QUIZ A

## CODE CLASS FORMAT – 2002 CONT'D

### **Session 4:**

Handouts:

1. Test Prep Class Assignment for Session 5

Discussion:

1. Test Prep Class Assignment for Session 4
2. Article 250

Homework:

1. Test Prep Class Assignment for Session 5
2. Article 250 – Continued

### **Session 5:**

Handouts:

1. Test Prep Class Assignment for Session 6
2. Box Fill Sheets – Segment 1

Discussion:

1. Test Prep Class Assignment for Session 5
2. Article 250
3. Box Fill

Homework:

1. Test Prep Class Assignment for Session 6
2. Read Articles 312 and 314

\*\*\*\*\*Quiz Over the Last Four Sessions\*\*\*\*\* QUIZ B

### **Session 6:**

Handouts:

1. Test Prep Class Assignment for Session 7
2. Box Fill Sheets – Segment 2

Discussion:

1. Test Prep Class Assignment for Session 6
2. Article 312
3. Article 314

Homework:

1. Test Prep Class Assignment for Session 7
2. Read Article 210

# **CODE CLASS FORMAT – 2002 CONT'D**

## **Session 7:**

Handouts:

1. Code Class Assignment for Session 8

Discussion:

1. Code Class Assignment for Session 7
2. Article 210
3. Hazardous Locations – Articles 500 – 504
4. Article 680

Homework:

1. Code Class Assignment for Session 8
2. Read Article 430

\*\*\*\*\*Quiz Over the Last Six Sessions\*\*\*\*\* QUIZ C

## **Session 8:**

Handouts:

1. Code Class Assignment for Session 9
2. Motor Sheets

Discussion:

1. Code Class Assignment for Session 8
2. Article 430

Homework:

1. Code Class Assignment for Session

## **Session 9:**

Handouts:

1. Code Class Assignment for Session 10

Discussion:

1. Code Class Assignment for Session 9
2. Conduit Fill

Homework:

1. Code Class Assignment for Session 10
2. Read Article 220

\*\*\*\*\*Quiz Over the Last Eight Sessions\*\*\*\*\* QUIZ D

## **Session 10:**

Discussion:

1. Code Class Assignment for Session 10
2. Article 220

Homework:

1. None



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

Date Mailed from BCC: 10-29-2013

Larry Van Wert



Document E-13-77  
Course Review

**NOTICE OF MICHIGAN ELECTRICAL ADMINISTRATIVE BOARD MEETING**

You are hereby notified that in accordance with the Administrative Procedures Act, 1969 PA 306, MCL 24.201 *et seq.*, and the Electrical Administrative Act being 1956 PA 217 MCL you are scheduled to appear before the Michigan Electrical Administrative Board on:

Date: November 7, 2013  
Time: 9:30 a.m.  
Location: Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes  
2501 Woodlake Circle, Conference Room 3  
Okemos, MI 48864

This notice is to provide you the opportunity to provide testimony to the board regarding proposed course. If you wish to offer any document(s) into evidence, you must file the documentation with Electrical Division prior to the meeting or bring fifteen (15) copies of the information you wish to enter for the board's consideration. In the event you are unable to attend the meeting or you choose not to appear before the board, please contact the Electrical Division in advance of the meeting. In the event that you fail to appear at the meeting as scheduled, a decision may be entered in your absence.

Accompanying this notice is a report outlining our findings and recommendation based upon the Electrical Administrative Act being 1956 PA 217 MCL and the documentation you have provided at the time of mailing. Any questions regarding this matter may be directed to the Electrical Division at (517) 241-9320.

  
Dan O'Donnell, Chief, Electrical Division

10/29/2013  
Date

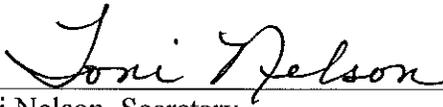
*Providing for Michigan's Safety in the Built Environment*

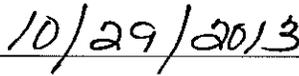
LARA is an equal opportunity employer  
Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.  
P.O. BOX 30254 • LANSING, MICHIGAN 48909  
www.michigan.gov/bcc • Telephone (517) 241-9302 • Fax (517) 241-9570

Course Review  
Larry Van Wert  
Document No. E-13-77  
November 7, 2013  
Page 2 of 3

**PROOF OF SERVICE**

I hereby state, to the best of my knowledge, information, and belief, that a copy of the foregoing document was served on this date upon all parties and/or attorneys of record in this matter by email to those parties employed by the State of Michigan and by first class mail to the remaining parties at their respective addresses as disclosed below.

  
\_\_\_\_\_  
Toni Nelson, Secretary  
Electrical Division  
Bureau of Construction Codes

  
\_\_\_\_\_  
Date

Larry Van Wert  


BCC Administration

■



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

November 7, 2013

E-13-78

TO: Members of the State Electrical Administrative Board  
FROM: Dan O'Donnell, Chief, Electrical Division  
SUBJECT: Course Approval, Electrical Master Examination Prep Course

**APPLICANT REPRESENTATIVE:**

Larry Van Wert

**AUTHORITY:**

The Michigan Electrical Administrative Act, 1956 PA 217 of the Michigan Compiled Laws and The Electrical Administrative Board General Rules.

**REQUEST:**

Request to petition the Electrical Administrative Board for approval of test prep course.

**APPLICABLE RULE:**

P.A. 217 of 1956 MCL, 338.883d Sec. 3d. (3), and MCL 338.883c (2), The Electrical Administrative Board General Rules, R338.1013a Rule 13a. (2).

**FINDINGS:**

Mr. Van Wert submitted a request to the Electrical Division for board approval of a master electrician test prep course in accordance with 1956 PA 217 MCL and the Electrical Administrative Board General Rules. The Electrical Division has reviewed the course information submitted by the applicant and has determined that the course description and instructor credentials are sufficient.

**RECOMMENDATION:**

Staff recommends approval of the master electrician test prep course submitted by Mr. Van Wert.

*Providing for Michigan's Safety in the Built Environment*

## Lawrence L. Van Wert



Home/Office



Cellular



Fax



E-mail Address:



Web Site Addresses:

[www.vanwertelectric.com](http://www.vanwertelectric.com)

[www.electrotech institute.com](http://www.electrotech institute.com)

### PERSONAL INFORMATION

Age



Date of Birth



Place of Birth



Electrical Licenses

Michigan Class 3 Electrical Journeyman

Michigan Class 2 Electrical Masters

Michigan Class 1 Electrical Contractor

### EMPLOYMENT RECORD

Van Wert Electric L.L.C./ Electro-Tech Institute  
6050 North Seymour  
Flushing, Mich. 48433

12/69 – Present

Industrial Controls – 45 years  
Industrial Maintenance – 45 years  
Commercial – 54 years  
NEC Training – 44 years  
Controls Training – 44 years  
Programmable Controllers Training – 42 years  
Consultants – 38 years

Grand Blanc Township  
G-5375 Saginaw St.  
Grand Blanc, Mich. 48439

4/98 – 11/02 - Retired

Electrical Inspector  
Electrical Plan Review

Flint Township  
1490 S. Dye Rd.  
Flint, Mich. 48532

10/99 – 06/04 - Retired

Electrical Inspector  
Electrical Plan Review

## **EMPLOYMENT RECORD CONTINUED**

|  |   |
|--|---|
| Construction Code Authority<br>Lapeer County<br>Lapeer, Mich. 48446<br>2/99 – 04/01 - retired                          | Electrical Inspector<br>Electrical Plan Review  |
| Vienna Township<br>Genesee County<br>11/01 – 08/03 - retired   | Electrical Inspector<br>Electrical Plan Reviewer  |
| Thetford Township<br>Genesee County<br>11/01- 05/02 - retired  | Electrical Inspector<br>Electrical Plan Reviewer  |
| Regional Inspections<br>Multi-County<br>6/00 – 11/03 - retired   | Electrical Inspector<br>Electrical Plan Reviewer  |
| General Motors Corporation - Delco/Delphi/Buick<br>1300 North Dort Hwy.<br>Flint, Mich 48502<br>12/64 – 4/98 - retired | UAW Electrician<br>Engineering Consultant<br>Trainer of Programmable Controllers Allen Bradley<br>Trainer for the National Electrical Code<br>Floor Consultant for Maintenance<br>Trainer of Power Facilities<br>Industrial Safety Trainer<br>Motors and Motor Controls Trainer |

## **EDUCATIONAL BACKGROUND**

### **Graduate:**

- Ferris State University
  - Bachelor of Science
  - Industrial/Technical Education, Electrical and Electronic
  - Post Secondary

### **Teaching background:**

- Flint Community Schools – Flint, Michigan
  - Substitute teacher
- Mott Community College – Flint, Michigan
  - Electrical Department
  - National Electrical Code
  - Electrical House Wiring to GED students
- Mott Adult Education Programs – Flint, Michigan
  - Industrial Safety
  - Natrional Electrical Code
  - Electrical House Wiring
  - Digital Electronics
  - Basic Electrical Fundamentals
- Baker College – Flint, Michigan
  - Dircet and Alternating Fundamentals
- Ross Learning Center – Flint, Michigan
  - National Electrical Code
- Independent Instruction – Electro Tech Institute, Flushing, Michigan
  - National Electrical Code

Programmable Controllers – Allen Bradley Specialist  
Basic Electricity/Electronics  
University of Michigan M-TEC – Southfield, Michigan  
Training of Ford Motor Company electricians to pass the State Electrical License Test  
General Motors Corporation – Flint, Michigan  
Programmable Controllers – Allen Bradley Specialist  
Board level repairs – electronics  
National Electrical Code  
Motors and Motor Controls  
Basic Electricity  
Digital Electronics  
High Voltage Electrical classes  
Industrial Safety  
Set up of the programs for journeymen and apprentices throughout GM  
Robotics and vision systems  
Instructor of the National Electrical Code since 1967  
General Motors  
Ford Motor Company  
Chrysler Corporation  
3-M Corporation  
Mott College  
Mott Adult High School  
Train-the-Trainer, Sarasota Florida  
Independent training at our training facility

**Author:**

Users Guide to Understanding the 2008 National Electrical Code

**Member of the following**

**IAEI:** International Association of Electrical Inspectors  
**SMBOCA:** Southern Michigan Building Officials Code Authority  
**FECA:** Flint Electrical Contractors Association  
**GECA:** Genesee Electrical Contractors Association  
**NEMA:** National Electrical Manufacturers Association  
**NECA:** National Electrical Contractors Association  
**IEEE:** Institute of Electrical and Electronic Engineers  
**GCBOCA:** Genesee County Building Officials Code Authority  
**CCA:** Construction Code Authority of Lapeer County  
**MDHA:** Michigan Duck Hunters Association  
**DU:** Ducks Unlimited  
**FRPC:** Flushing Rifle and Pistol Club  
**NRA:** National Rifle Association

# **NATIONAL ELECTRICAL CODE ELECTRICAL EXAMINATION PREPARATION AND RETESTING CLASS FOR MASTER LICENSES**

## ***CURRICULUM:***

Students shall be taught the National Electrical Code and how to utilize the book in finding answers to questions as well as memorizing specific Code rules and regulations. They will also get the standards in training for solving Ohm's law problems as well as common knowledge material not related to in the Code Book. Training and discussions shall be based upon the code articles, how they are interpreted and how they relate with each other. Training shall also include referencing new changes to the code which are pertinent to understanding.

The study of the Code shall cover the following subjects, but in a designed order for training purposes.

S.O.M. Part 8 Electrical Rules, 1 & 2 Family Dwelling Electrical Rules, PA 217, and PA 230 as relating to the State Electrical Rules

Chapter 1: GENERAL REQUIREMENTS

Chapter 2: WIRING AND PROTECTION

Chapter 3: WIRING METHODS AND MATERIALS

Chapter 4: EQUIPMENT FOR GENERAL USE

Chapter 5: SPECIAL OCCUPANCIES

Chapter 6: SPECIAL EQUIPMENT

Chapter 7: SPECIAL CONDITIONS

Chapter 8: COMMUNICATIONS SYSTEMS

Appendix A: OTHER PUBLICATIONS RELATING TO NFPA-70

Appendix C: CONDUIT FILL

Appendix D: EXAMPLES

## ***LEARNING OBJECTIVE:***

The objective is to make the student feel comfortable when moving about the contents of the Code Book looking for information and to have a solid understanding of the Code.

## ***EXPECTED OUTCOME:***

After completing the course, the student will have the knowledge necessary to successfully retake the State examination for Masters license, understanding the Code Book well enough to take that examination.

## ***PREREQUISITES:***

Students who partake of this course should have the equivalent of a journeyman license in electrical from the State of Michigan, a municipality having electrical inspections and testing, or a reciprocal council.

## ***COMPLETION REQUIREMENTS:***

Students partaking of the class for rewriting the master examination shall complete thirty hours of contact class time.

## ***CLASS ORIGINATOR:***

*Lawrence L. Van Wert  
Van Wert Electric L.L.C.*



# **NATIONAL ELECTRICAL CODE NFPA - 70**

## **NATIONAL FIRE PREVENTION ASSOCIATION - -70 RULES**

### **COURSE TITLE: NEC MASTER LICENSE PREPARATORY COURSE**

**HOURS: 30**

**DESCRIPTION:** The National Electrical Code master license test preparatory course is designed to give the student a better understanding of the National Electrical code and the revised rules, which govern the installation of electrical equipment throughout Michigan and the United States, wherever law demands those rules. Students study specific code articles and all revisions governing installation of equipment in residential, commercial, and industrial environments, consisting of hazardous and non-hazardous areas. Information taught in the classroom is enhanced with drawings, authentic equipment, and other visual aids, which allow the students to achieve a better perspective of how equipment looks in real life and how to install it properly.

#### **OBJECTIVE:**

To instruct the students who take the course on better ways in which to search the National Electrical Code in a shorter period of time, and to acquaint the students with the contents of the Code and the reasons for the revisions in the Code from the previous adopted version.

#### **GOALS:**

- Upon completion of this course, the electrician will be able to:
- Be prepared to take the Masters License retest examination.
- Interpret the revised National Electrical codes.
- Obey revised national mandate codes.
- Obey revised State mandate changes to the code.
- Do work in a neat and workman-like manner.
- Follow safe electrical practices.
- Rewire existing installations with new revisions.
- Calculate revised derating factors.
- Obey revised safe grounding and bonding practices.
- Calculate revised service sizing.
- Design revised motor circuits.
- Calculate revised motor over current protection.
- Calculate revised transformer sizing.
- Make installations with revisions for residence, industry, commercial, or governmental.

# **TEST PREP CLASS FORMAT- MASTERS -**

## **Session 1:**

### Handouts:

1. SOM Part 8
2. PA 217

### Discussion:

1. Part 8
2. PA 217
3. Internet Address for SOM
4. NEC Chapters, Highlights, and Major Changes

### Homework:

1. Test Prep Class Assignment for Session 2

## **Session 2:**

### Handouts:

1. Electrical Formulas
2. Ohms Law Wheel
3. Series/Parallel Problems
4. Test Prep Class Assignment for Session 3

### Discussion:

1. Recap of Session 1
2. Test Prep Class Assignment for Session 2
3. 110.14 a, b, and c
4. Chapter 3 – Article 300

### Homework:

1. Series/Parallel Problems
2. Test Prep Class Assignment for Session 3

## **Session 3:**

### Handouts:

1. Determining the Number of Current Carrying Conductors
2. Grounding and Bonding Sheet
3. Test Prep Class Assignment for Session 4
4. Wire Temperature Ratings and Terminations Paper

### Discussion:

1. Series/Parallel Problems
2. Test Prep Class Assignment for Session 3
3. 110.26
4. 310.15b2a and Current Carrying Conductors and De-rating
5. T 310.16 Temperature De-rating
6. Grounding and Bonding

### Homework:

1. Test Prep Class Assignment for Session 4
2. Grounding and Bonding Problem

\*\*\*\*\*Quiz Over the Last Two Sessions\*\*\*\*\* QUIZ A

# **TEST PREP CLASS FORMAT – CONT'D**

## **Session 4:**

### Handouts:

1. Test Prep Class Assignment for Session 5

### Discussion:

1. Test Prep Class Assignment for Session 4
2. Article 250

### Homework:

1. Test Prep Class Assignment for Session 5
2. Article 250 – Continued

## **Session 5:**

### Handouts:

1. Test Prep Class Assignment for Session 6
2. Box Fill Sheets – Segment 1

### Discussion:

1. Test Prep Class Assignment for Session 5
2. Article 250
3. Box Fill

### Homework:

1. Test PRep Class Assignment for Session 6
2. Read Articles 312 and 314

\*\*\*\*\*Quiz Over the Last Four Sessions\*\*\*\*\* QUIZ B

## **Session 6:**

### Handouts:

1. Test PRep Class Assignment for Session 7
2. Box Fill Sheets – Segment 2

### Discussion:

1. Test Prep Class Assignment for Session 6
2. Article 312
3. Article 314

### Homework:

1. Test Prep Class Assignment for Session 7
2. Read Article 210

# **TEST PREP CLASS FORMAT – CONT'D**

## **Session 7:**

### Handouts:

1. Test Prep Class Assignment for Session 8

### Discussion:

1. Test PRep Class Assignment for Session 7
2. Article 210
3. Hazardous Locations – Articles 500 – 504
4. Article 680

### Homework:

1. Test Prep Class Assignment for Session 8
2. Read Article 430

\*\*\*\*\*Quiz Over the Last Six Sessions\*\*\*\*\* QUIZ C

## **Session 8:**

### Handouts:

1. Test Prep Class Assignment for Session 9
2. Motor Sheets

### Discussion:

1. Test Prep Class Assignment for Session 8
2. Article 430

### Homework:

1. Test Prep Class Assignment for Session

## **Session 9:**

### Handouts:

1. Test Prep Class Assignment for Session 10

### Discussion:

1. Test Prep Class Assignment for Session 9
2. Conduit Fill

### Homework:

1. Test Prep Class Assignment for Session 10
2. Read Article 220

\*\*\*\*\*Quiz Over the Last Eight Sessions\*\*\*\*\* QUIZ D

## **Session 10:**

### Discussion:

1. Test Prep Class Assignment for Session 10
2. Article 220

### Homework:

1. None



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

Date Mailed from BCC: 10-29-2013

Larry Van Wert



Document E-13-78  
Course Review

**NOTICE OF MICHIGAN ELECTRICAL ADMINISTRATIVE BOARD MEETING**

You are hereby notified that in accordance with the Administrative Procedures Act, 1969 PA 306, MCL 24.201 *et seq.*, and the Electrical Administrative Act being 1956 PA 217 MCL you are scheduled to appear before the Michigan Electrical Administrative Board on:

Date: November 7, 2013  
Time: 9:30 a.m.  
Location: Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes  
2501 Woodlake Circle, Conference Room 3  
Okemos, MI 48864

This notice is to provide you the opportunity to provide testimony to the board regarding proposed course. If you wish to offer any document(s) into evidence, you must file the documentation with Electrical Division prior to the meeting or bring fifteen (15) copies of the information you wish to enter for the board's consideration. In the event you are unable to attend the meeting or you choose not to appear before the board, please contact the Electrical Division in advance of the meeting. In the event that you fail to appear at the meeting as scheduled, a decision may be entered in your absence.

Accompanying this notice is a report outlining our findings and recommendation based upon the Electrical Administrative Act being 1956 PA 217 MCL and the documentation you have provided at the time of mailing. Any questions regarding this matter may be directed to the Electrical Division at (517) 241-9320.

  
Dan O'Donnell, Chief, Electrical Division

10/29/2013  
Date

*Providing for Michigan's Safety in the Built Environment*

LARA is an equal opportunity employer  
Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.  
P.O. BOX 30254 • LANSING, MICHIGAN 48909  
www.michigan.gov/bcc • Telephone (517) 241-9302 • Fax (517) 241-9570

Course Review  
Larry Van Wert  
Document No. E-13-78  
November 7, 2013  
Page 2 of 3

**PROOF OF SERVICE**

I hereby state, to the best of my knowledge, information, and belief, that a copy of the foregoing document was served on this date upon all parties and/or attorneys of record in this matter by email to those parties employed by the State of Michigan and by first class mail to the remaining parties at their respective addresses as disclosed below.

*Toni Nelson*

\_\_\_\_\_  
Toni Nelson, Secretary  
Electrical Division  
Bureau of Construction Codes

*10/29/2013*

\_\_\_\_\_  
Date

Larry Van Wert  


BCC Administration



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

November 7, 2013

E-13-79

TO: Members of the State Electrical Administrative Board  
FROM: Dan O'Donnell, Chief, Electrical Division  
SUBJECT: Course Approval, Electrical Master/Journeyman Examination Prep Course

**APPLICANT REPRESENTATIVE:**

Delta College/Sherrill Irish

**AUTHORITY:**

The Michigan Electrical Administrative Act, 1956 PA 217 of the Michigan Compiled Laws and The Electrical Administrative Board General Rules.

**REQUEST:**

Request to petition the Electrical Administrative Board for approval of test prep course.

**APPLICABLE RULE:**

P.A. 217 of 1956 MCL, 338.883d Sec. 3d. (3), and MCL 338.883c (2), The Electrical Administrative Board General Rules, R338,1013a Rule 13a. (2).

**FINDINGS:**

Ms. Irish submitted a request to the Electrical Division for board approval of a journey/master electrician test prep course in accordance with 1956 PA 217 MCL and the Electrical Administrative Board General Rules. The Electrical Division has reviewed the course information submitted by the applicant and has determined that the course description and instructor credentials are sufficient.

**RECOMMENDATION:**

Staff recommends approval of the journey/master electrician test prep course submitted by Ms. Irish on behalf of Delta College.

*Providing for Michigan's Safety in the Built Environment*



**Delta College**  
LifeLong Learning

September 30, 2013

Mr. Dan O'Donnell  
State of Michigan, Electrical Division  
2501 Woodlake Circle  
Okemos, MI 48864

RECEIVED

OCT 01 2013

RE: Journeyman/Master Exam Prep & Re-Exam Course Approval

ELECTRICAL  
DIVISION

Dear Mr. O'Donnell,

Please accept this packet as our petition to the Electrical Administrative Board to consider our application for course/instructor approval of the "Journeyman/Master Exam Prep & Re-Exam" course. Per our conversation, enclosed are the following items for review:

- 1) Sample Syllabus (35.0 Contact Hrs, Classroom Setting)
- 2) Instructor Bio for Bruce Keidel
- 3) Required Textbooks/Materials:
  - a. Textbook #1: 2011 Electrical Code Book
  - b. Textbook #2: Mike Holt's Illustrated Guide to Electrical Exam Prep
  - c. Handout: 2011 Michigan Electrical Code Rules/Part 8

Our applicant information should be listed as follows:

Applicant Name: Delta College/LifeLong Learning  
Contact Person: Lindsey Bourassa, Program Manager  
Telephone Number: [REDACTED]  
Address: 1961 Delta Road, H Wing, University Center, MI 48710  
Email: [lifelonglearning@delta.edu](mailto:lifelonglearning@delta.edu)

Please feel free to contact our Program Manager, Lindsey Bourassa, at (989) 686-9366 if you have any questions or concerns regarding any of the materials provided with our application.

Sincerely,



Sherrill Irish, Administrative Assistant  
Delta College, LifeLong Learning  
Phone: [REDACTED]

## Journeyman and Master Exam Prep & Re-Exam Course

# SAMPLE SYLLABUS

**Instructor:**

Bruce Keidel

E-mail: [REDACTED]

**Office Hours:**

By appointment only.

**Supervisor's Name:**

Lindsey M. Bourassa, Office: H115, Phone: [REDACTED]

**Materials:****Textbooks:**

2011 National Electrical Code

Mike Holt's Illustrated Guide to Electrical Exam Preparation

***\*For sale at the Delta College Bookstore***

**Other Material:**

Current Part 8 Electrical Code Rules

*(visit State of Michigan website to print current code)*

**State of Michigan Electrical Exam Information:**

for complete information on the requirements for the State of Michigan Electrical Exam, please visit the Michigan Department of Licensing and Regulatory Affairs accessible through the State of Michigan Website:

<http://www.michigan.gov/lara/>

**Overview of Course:**

This 35-hour course prepares participants for the State of Michigan Journeyman & Master Electrical Licensing Exam. Course will assist students who have been out of school for a while to develop student habits and coordinate the use of the 2011 N.E.C. Code book with questions listed in the Mike Holt's Exam Prep textbook.

**Getting a good start:**

The intent of this syllabus is to let you know what will be expected in this course, It is essential that you read the syllabus in its entirety. This document contains important information about how the class will be conducted, policies, student responsibilities, assignments, and a class schedule. Each and every student will be held accountable to these written standards.

RECEIVED

OCT 01 2013

ELECTRICAL  
DIVISION

**Statement of change:**

Unforeseen circumstances such as weather, instructor illness, and class composition may make minor adjustments in the course schedule and procedures necessary. If the learning process will benefit from such a change, you will be informed in a timely manner. This document is not a contract, and the instructor reserves the right to modify aspects of the syllabus, schedule, and assignments in order to meet the course objectives. Delta College LifeLong Learning recognizes the right of the instructor to use professional judgment in making such adjustments.

**Course Policies:**

**Class attendance is required.** Students are expected to be fully prepared for and participate in all class sessions. Attendance will be taken at the start of each class session. Any late arrivals will be considered as absent. Absences will affect a student's final grade and Certificate of Completion will not be awarded if an absence occurs. No exceptions!

**Classroom Policy:**

All cell phones are to be turned **OFF** during class. Anything that may disrupt or cause any student concerns over their learning opportunity, safety and or general well-being while at Delta College could be reason for dismissal.

**Integrity of work:**

Plagiarism or any misrepresentation of work, unsanctioned collaboration, use of prohibited materials, and participation in any form of dishonesty all constitute violation of the integrity of work policy. It is up to the individual faculty member to determine standards of integrity for academic coursework. In this class, any student found to be in violation of the above on an individual assignment will be given a zero on the assignment involved.

**Refund Policy:**

**100% REFUND:** available prior to the start date of the program.  
**No Refund authorized *on or after* the start date.** Fees are non-transferrable.

**Withdrawal Policy:**

If you miss two consecutive class sessions without contacting your instructor you may be dropped from the course through the instructor initiated drop process. You may withdrawal online through MyDelta or in person through the Registrar's and/or LifeLong Learning Offices.

**Classroom Civility:**

Our classroom will be one of mutual respect for all. Students who are not actively respectful will be subject to Delta's Disruptive Students policy. Under Delta's Disruptive Students Policy, a student may be removed from the classroom for one class period up to the entire program. Please choose your language carefully to ensure respect. Offensive words that label people according to specific characteristics will not be tolerated.

RECEIVED

OCT 01 2013

ELECTRICAL  
DIVISION

## **Delta College Adverse Weather Situations College-Wide Statement**

Adverse weather may affect the regular operations of Delta College. Recognizing its responsibility to students and the community, the College will close when it appears that the interests of all concerned will be best served by doing so. The decision to close the College will be made by the President (Dr. Jean Goodnow) or designee, in consultation with the Facilities Director (Larry Ramseyer), the Vice President of Instruction and Learning Services (Dr. Thomas Lane), and others as appropriate, based on the following criteria:

1. The current condition of main roads leading to the campus
2. Weather reports regarding the track of the storm and other conditions
3. The condition of drives and parking on the campus
4. The condition of heat and other utilities on campus

Maximum effort will be made to decide on closing the college, if necessary, prior to 6 a.m. for day classes, and prior to 3:30 p.m. for evening classes. Students, faculty and staff travel from a broad geographic area making it impossible to come to a decision that is appropriate for everyone, since weather conditions are rarely uniform across the area. A conscientious effort is made to arrive at a reasonable decision considering all the factors. The College encourages safe driving practices and avoidance of unnecessary risks in traveling to work or classes. It is each driver's responsibility to decide whether to travel to the College, based on road conditions driving skills and vehicle conditions. If a delayed opening is announced, all classes starting before the announced time are cancelled; classes starting at or after the announced time meet as scheduled. Offices open at the announced time. In the event of an early closing, the classes in progress will be dismissed at the time of closure.

**Note:** *Those students involved in LifeLong Learning job training programs with clinical or co-op work experiences should consult with their instructors and/or clinical coordinator for additional information on the effect of school closures as it will be the student's responsibility to meet their commitments to employers.*

### **ADDITIONAL WEATHER INFORMATION**

In the event that the College must make any adjustment to its normal operation, please refer to the following suggestions.

- For the most current and accurate information, go to the Delta College website: [www.delta.edu](http://www.delta.edu).
- If you do not have computer access, tune in to Delta College Quality Public Broadcasting, Q-TV, or Q-90.1 FM. You can also call the Delta College Information Line at (989) 686-9179.
- Major commercial radio and television stations will also be notified
- If the decision is made to close early, an all-staff/faculty email will be sent via listserv.

**CLOSING OFF-CAMPUS CENTERS/SITES DUE TO ADVERSE SITUATIONS:** When the main campus of Delta College is closed, all classes at off-campus centers and sites are canceled as well. However, an off-campus center or site building may remain open when the main campus is closed.

The most complete information will be available on the Delta College Web site: [www.delta.edu](http://www.delta.edu).

RECEIVED

OCT 01 2013

ELECTRICAL  
DIVISION

## **COURSE OUTLINE (35.0 Contact Hours)**

### **CLASS 1 (3.5hrs):**

#### Introduction

- Table of Contents
- Index
- Code Book Language

#### Explanation of the 2011 NEC Handbook

- Design
- Appeals
- Authority
- Review Mike Holts exam prep book
- Assign Trade Practice Quiz #1 - pages 446 thru 450 (50 questions)

### **CLASS 2 (3.5hrs):**

- Review Quiz #1
- Introduce Michigan Electrical Code Rules, Part 8
- Discuss Index/Contents, Article 90
- Assign Trade Competency Quiz, Unit 2 - pages 460 thru 464 (50 questions)

### **CLASS 3 (3.5hrs):**

- Review Trade Competency Quiz #2
- Show Visual (Powerpoint), Changes to N.E.C. – Chapter #2
- Discuss Article 90-100-210-215-220-230-240-250 of the NEC
- Introduce Electrical Formulas; pages 3 thru 20 Assign Trade Competency Quiz, Unit 3 – pages 474 thru 478 (50 questions)

### **CLASS 4 (3.5hrs):**

- Review Trade Competency Quiz #3
- Show Visual (Powerpoint), Changes to N.E.C. – Chapter #3
- Discuss Annex A thru H
- Review All Tables in Article 310
- Assign Trade Competency Quiz #4 - pages 488 thru 492 (50 questions)

### **CLASS 5 (3.5hrs)**

- Review Trade Competency Test #4
- Show Visual (Powerpoint), Changes to N.E.C. – Chapter # 4
- Review ART. 314 and All Changes in ART 314
- Assign Trade Competency Quiz #5, pages 502 thru 506 (50 questions)

### **CLASS 6 (3.5hrs)**

- Review Trade Quiz #5
- Review Tables Article 210 (Branch Circuit Requirements), 220-11 (Feeder & Circuit Calculations), ART 220.12 – ART 220.83
- Do Sample Calculations from ART 210-220
- Assign Trade Competency Quiz #6, pages 516 thru 520 (50 questions)

RECEIVED

OCT 01 2013

ELECTRICAL  
DIVISION

**CLASS 7 (3.5hrs)**

- Review Trade Competency, Quiz #6
- Review Articles 410-422
- Introduce Article 430, use Unit 13, page 407 and N.E.C Article 430
- Assign Trade Competency Quiz #7 pages 530 thru 534 (50 questions)

**CLASS 8 (3.5hrs)**

- Review Trade Competency, Quiz #7
- Present Articles 450, 460, Use Unit #12 Mike Holts Exam
- Assign Trade Competency, Quiz # 8 pages 544 thru 548

**CLASS 9 (3.5hrs)**

- Review Trade Quiz #8
- Present Articles 500-520, 640 & 700,
- Show visual (Powerpoint) Changes to N.E.C - Chapters #5 & #6
- Assign Trade Final Exam, pages 643 thru 649 (100 questions)

**CLASS 10 (3.5hrs)**

- Review Tables of Chapter 9, OHMs Law, Electrical Formulas
- Review Final Test #1
- Show visual (Powerpoint), Changes to N.E.C. – Chapters #7 & #8

RECEIVED  
OCT 01 2013  
ELECTRICAL  
DIVISION

**Course Objectives:** Upon successful completions of this course, the **Journeyman** covers entry-level knowledge of the electrical industry as outlined in all categories listed below. The **Master** covers additional knowledge required to plan and supervise electrical installations as outlined in all categories listed below.

| Outcomes                                      | Objectives  |
|---|---|
| Grounding & Bonding                           | Determination of system and circuit grounding requirements, methods and location of grounding connections. Choosing proper size grounding conductors, bonding of enclosures, equipment and interior metal piping systems.   |
| Branch Circuits, Wire Connections and Devices | Knowledge of circuit classifications, ratings, design and use requirements. Knowledge and calculation of branch circuit loads. Application of code rules covering electrical outlets and devices, including wiring connectors and methods.  |
| Conductors                                    | Determination ampacity, type of insulation, usage requirements, methods of installation, protection, support and termination. Includes calculation of voltage drop and deration.  |
| General Knowledge of Electrical Trade         | Terminology and practical calculations such as power factor, voltage and current ratings of equipment.  |
| Motors and Control of Motors and Equipment    | Knowledge of code rules governing installation of motors and controls. Includes calculations for motor feeder and branch circuits, short circuit, ground fault, and overload protection, and disconnecting means. Knowledge of all control circuits and motor type application and usage. |
| Services and Feeders                          | Knowledge of code rules covering services. Calculation of electrical loads and determination of proper size, rating and type of service and feeder conductors.  |
| General Use Equipment                         | Knowledge of code rules covering appliances, heating and air conditioning equipment, generators, transformers, etc.   |

|  |  |
|--|--|
| Overcurrent Protection                               | Knowledge or application of fuses, circuit breakers and all types of protective devices for conductors and equipment. Includes rules on taps and splices.  |
| Raceways   | Knowledge of all types of raceways and their uses. Determining proper size, conductor fill, support and methods of installation.   |
| Special Occupancies and Equipment                    | Knowledge of code rules as they apply to hazardous locations, health care facilities, places of assembly, etc. Includes code rules on signs, welders, industrial machinery, swimming pools, etc. |
| Boxes, Cabinets, Panelboards, Non-Raceway Enclosures | Application of proper type, use and support of boxes and cabinets, etc. Includes calculation of proper size and rating.  |

RECEIVED

OCT 01 2013

ELECTRICAL  
DIVISION

# **Bruce Keidel – Instructor BIO**

Delta College, 1961 Delta Road, University Center, Michigan 48710

---

## **Occupational/Instructional Experience**

- Currently working as an electrical inspector with authority/jurisdiction in several Michigan cities and townships
- 45+ years of electrical experience, including installations, repairs, inspections, and project supervision.
- 5+ years instructional experience with Delta College, including, NEC Code Update and Journeyman/Master Exam Preparation classes
- 10+ years instructional experience with many schools and apprenticeship programs
- Additional experience specializing in hazardous locations (i.e., Dow Chemical plants)

## **Licensing/Certifications**

- Master Electrician's License, #6204453
- Registered Code Official & Inspector, #004614
- Electrical Contractors License, #6104347
- VOC. AUTH. – Adult Education (Teachers Certification), #IF0000000208752

RECEIVED

OCT 01 2013

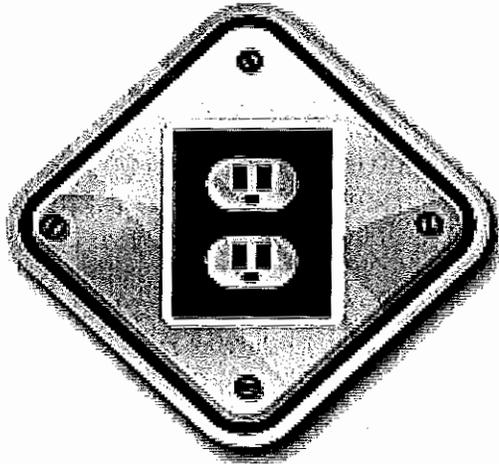
ELECTRICAL  
DIVISION

Required Material

Department of Licensing and Regulatory Affairs

**2011  
MICHIGAN ELECTRICAL CODE RULES  
Part 8**

INCORPORATING THE 2011 EDITION OF  
THE NATIONAL ELECTRICAL CODE



BUREAU OF CONSTRUCTION CODES  
P.O. Box 30254  
Lansing, Michigan 48909  
[www.michigan.gov/bcc](http://www.michigan.gov/bcc)

*Providing for Michigan's Safety in the Built Environment*

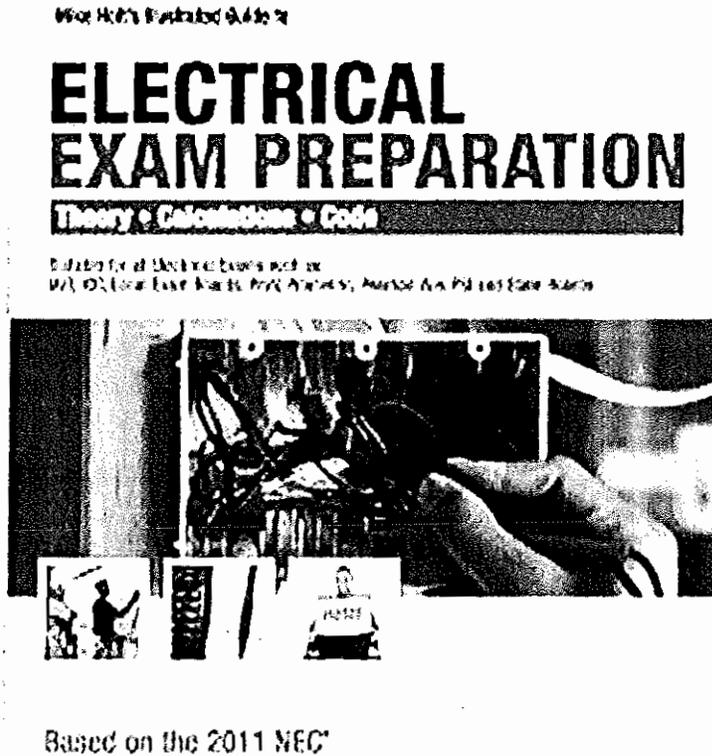
RECEIVED

OCT 01 2013

ELECTRICAL  
DIVISION

**TEXTBOOK #2: Mike Holt's Illustrated Guide to Electrical Exam Prep**

**Table of Contents & Sample Chapter**



This comprehensive Electrical Exam Preparation book gives you an overview of Electrical Theory, and teaches you how to master Electrical Calculations. In addition, Chapter 4 of this book includes a copy of our 2011 NEC Practice Questions book. Printed in full-color with detailed and educational illustrations it will guide you through everything you need to know about Calculations. The book is designed for individual or classroom use and can be used for Exam Preparation or as a Calculations study guide. You will receive over 500 illustrations and 2,800 questions to help you learn the material and test your knowledge in each area. To really prepare yourself for an upcoming exam we strongly recommend that you consider an Exam Preparation Library. All libraries include DVDs to help you really understand the material that is being presented. In addition, they give you a broader background on Theory and really teach you the Code. The Exam Prep book assumes that you already know the code and is simply testing that knowledge.

Website: <http://www.mikeholt.com/bookitem.php?id=917>

RECEIVED

OCT 01 2015

ELECTRICAL  
DIVISION

Required Material

TEXTBOOK #1: 2011 ELECTRICAL CODE BOOK

Table of Contents

**N F P A 7 0 °**



**National Electrical Code®**  
International Electrical Code® Series

RECEIVED

OCT 01 2013

ELECTRICAL  
DIVISION



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

Date Mailed from BCC: 10-29-2013

Sherrill Irish  
Delta College



Document E-13-79  
Course Review

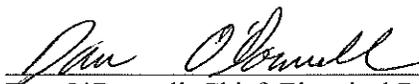
**NOTICE OF MICHIGAN ELECTRICAL ADMINISTRATIVE BOARD MEETING**

You are hereby notified that in accordance with the Administrative Procedures Act, 1969 PA 306, MCL 24.201 *et seq.*, and the Electrical Administrative Act being 1956 PA 217 MCL you are scheduled to appear before the Michigan Electrical Administrative Board on:

Date: November 7, 2013  
Time: 9:30 a.m.  
Location: Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes  
2501 Woodlake Circle, Conference Room 3  
Okemos, MI 48864

This notice is to provide you the opportunity to provide testimony to the board regarding proposed course. If you wish to offer any document(s) into evidence, you must file the documentation with Electrical Division prior to the meeting or bring fifteen (15) copies of the information you wish to enter for the board's consideration. In the event you are unable to attend the meeting or you choose not to appear before the board, please contact the Electrical Division in advance of the meeting. In the event that you fail to appear at the meeting as scheduled, a decision may be entered in your absence.

Accompanying this notice is a report outlining our findings and recommendation based upon the Electrical Administrative Act being 1956 PA 217 MCL and the documentation you have provided at the time of mailing. Any questions regarding this matter may be directed to the Electrical Division at (517) 241-9320.

  
Dan O'Donnell, Chief, Electrical Division

10/29/2013  
Date

*Providing for Michigan's Safety in the Built Environment*

LARA is an equal opportunity employer  
Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.  
P.O. BOX 30254 • LANSING, MICHIGAN 48909  
www.michigan.gov/bcc • Telephone (517) 241-9302 • Fax (517) 241-9570

Course Review  
Sherill Irish  
Document No. E-13-79  
November 7, 2013  
Page 2 of 3

**PROOF OF SERVICE**

I hereby state, to the best of my knowledge, information, and belief, that a copy of the foregoing document was served on this date upon all parties and/or attorneys of record in this matter by email to those parties employed by the State of Michigan and by first class mail to the remaining parties at their respective addresses as disclosed below.

*Toni Nelson*

\_\_\_\_\_  
Toni Nelson, Secretary  
Electrical Division  
Bureau of Construction Codes

*10-29-2013*

\_\_\_\_\_  
Date

Sherrill Irish  
Delta College



BCC Administration



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

November 7, 2013

E-13-80

TO: Members of the State Electrical Administrative Board  
FROM: Dan O'Donnell, Chief, Electrical Division  
SUBJECT: Fire Alarm Specialty Technician Apprenticeship Training Program

**APPLICANT REPRESENTATIVE:**

Richard W. Fulton/National Time & Signal Corporation

**AUTHORITY:**

The Michigan Electrical Administrative Act, 1956 PA 217 of the Michigan Compiled Laws.

**REQUEST:**

Request to petition the Electrical Administrative Board for approval of Fire Alarm Specialty Technician apprenticeship training program.

**APPLICABLE RULE:**

P.A. 217 of 1956 MCL, 338.883h Sec. 3h. (2)

**FINDINGS:**

Mr. Fulton and National Time & Signal Corporation (NATSCO) have submitted a Fire Alarm Specialty Technician (FAST) apprenticeship training program for consideration by the Electrical Administrative Board. NATSCO is seeking board approval of their FAST program to comply with the requirements set forth in 1956 PA 217 MCL. The program consist of 3776 hours of on the job learning (OJL) and 224 hours of related technical instruction (RTI) which will consist of classroom, online, and independent study.

*Providing for Michigan's Safety in the Built Environment*

**RECOMMENDATION:**

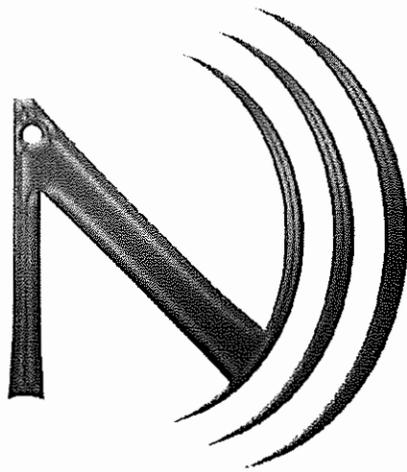
Staff recommends that the board review the information that has been submitted by Mr. Fulton and National Time & Signal Corporation with regards to their request for approval by the board of the FAST apprenticeship program which they have submitted.

FIRE ALARM SPECIALITY TECHNICIAN  
(PROTECTIVE SIGNAL INSTALLER)

# Standards of Apprenticeship

---

Developed by



**National  
Time & Signal**

28045 Oakland Oaks Ct. Wixom, Michigan 48393

Website [www.natsco.net](http://www.natsco.net)

Phone # (248) 380-6264 Fax # (248) 380-6268

October 4<sup>th</sup>, 2013

These NATSCO Apprenticeship Standards have as their objective, the training of fire alarm specialty technicians (FAST) skilled in all phases of the industry. The Sponsor recognizes that in order to accomplish this, there must be well developed on-the-job learning combined with related instruction.

This recognition has resulted in the development of the Standards of Apprenticeship. They were developed in accordance with the basic standards recommended by the SOM. It is the basis from which the Sponsor can work to establish an apprenticeship program that meet the particular needs of the area.

The goal of the NATSCO Apprenticeship Program is to provide the necessary on-the-job learning experience and related technical instruction to accomplish the following standards:

1. Complete, pass, and meet requirements for NICET CBT for level one in the first 1000 hours of employment
2. Complete, pass, and meet requirements for NICET CBT for level two in the following 3000 hours of employment
3. Complete and pass the FAST examination administered by the SOM

## Table of Contents

|   |    |
|---|----|
| <b>Fire Alarm Specialty License Requirements</b> .....  | 5  |
| <b>Work Experience and Related Instruction</b> .....  | 5  |
| <b>Level One Training Tasks and Skill Requirements (1000 Hours Minimum)</b> .....                                       | 6  |
| Training hours breakdown of the knowledge and skills* .....   | 6  |
| Properly mount and connect fire alarm system components. ....   | 6  |
| Practice correct wiring methods. ....   | 6  |
| Practice work-site safety .....   | 7  |
| Perform simple maintenance tasks and operate basic test equipment. ....   | 7  |
| <b>Level Two Training Tasks and Skill Requirements (3000 Hours Minimum)</b> .....                                       | 8  |
| Training hours breakdown of the knowledge and skills* .....   | 8  |
| Verify the occupancy classification and the requirements of applicable codes and standards for specified premises. .... | 8  |
| Assemble project information for shop drawings. ....  | 8  |
| Survey site conditions to verify that they support the requirements of the fire alarm system design and layout.....     | 8  |
| Draft simple shop drawings.....   | 9  |
| Determine power supply and loading requirements for fire alarm systems. ....  | 9  |
| Identify applicable codes, standards, and listings.....   | 10 |
| Read fire alarm and other building system plans. ....   | 10 |
| Develop an installation plan based upon field conditions and project requirements. ....                                 | 10 |
| Accept delivery of materials.....   | 11 |
| Install fire alarm systems.....   | 11 |
| Conduct a system start-up and diagnostics.....  | 11 |
| Use computer applications to program a system.....  | 12 |
| Troubleshoot system problems.....   | 12 |
| Perform system commissioning. ....  | 13 |
| Compile test completion data.....   | 13 |
| Create as-built documentation.....  | 13 |
| Provide training to the customer/end user.....  | 14 |

|   |           |
|---|-----------|
| Apply fire stopping practices. ....   | 14        |
| Mitigate worksite safety hazards. ....  | 14        |
| Follow applicable maintenance standards and procedures. ....                                | 14        |
| Troubleshoot and repair system faults. ....   | 15        |
| Prepare, distribute, and maintain documentation. ....                                       | 15        |
| Train and mentor Level I technicians. ....  | 15        |
| Provide on-site coordination for simultaneous installation activities. ....                 | 16        |
| Provide on-site coordination of available personnel to maintain established schedules. .... | 16        |
| Coordinate the technical aspects of a job on-site. ....                                     | 16        |
| Identify and report personnel issues. ....  | 16        |
| Promote a safe work environment. ....   | 16        |
| Identify and report on-site problems or conflicts that impact the project schedule. ....    | 17        |
| <b>Program Administration</b> .....   | <b>17</b> |
| <b>Adoption of Apprenticeship Standards:</b> .....  | <b>18</b> |

## **Definitions**

**Apprentice** - Any individual employed by the employer meeting the qualifications described in the Standards of Apprenticeship who has signed the Apprenticeship Statement with the Sponsor providing for training and related instruction under these standards, and who is registered with the State of Michigan in accordance with 1956 PA 217 MCL.

**AHJ** - Authority Having Jurisdiction

**CBT** - Computer Based Testing

**FAST** - Fire alarm specialty technician

**LARA** - Department of Licensing and Regulatory Affairs

**IBC** - International Building Code

**IFC** - International Fire Code

**IRC** - International Residential Code

**NATSCO** - National Time & Signal Corporation

**NICET** - National Institute for Certification in Engineering Technologies

**NRTL** - Nationally Recognized Testing Laboratory

**NFPA** - National Fire Protection Association

**OJL** - On the job learning. Tasks learned while under the supervision of a licensed and/or factory trained Fire Alarm Specialty Technician.

**OSHA** - Occupational Safety and Health Administration

**RTI** - Related Technical Instruction

**SOM** - State of Michigan

**UL** - Underwriters Laboratory

**VOM** - Volt ohm meter also known as a multi-meter

## **Fire Alarm Specialty Technician License Requirements**

SOM and LARA have the following requirements for attaining a FAST License:

1. Must be at least 18 years of age.
2. Be certified by the National Institute for Certification in Engineering Technology (NICET) as an associate engineering technician, level II, or the equivalent as determined by the board, in the field of fire alarm systems technology.
3. 4000 hours (2 years) minimum of employment in related job capacity to meet NICET's job experience requirements to meet level II.
4. Pass NICET's CBT for level II
5. Must take and pass the SOM administered examination.

## **Work Experience and Related Instruction**

During the apprenticeship period the apprentice will receive OJL experience under the direction and guidance of a FAST licensed supervisor. In addition to OJL the apprentice will be required to participate in the related technical instruction for each skill segment of the program. RTI will include classroom, online, and independent study course work.

## **Level One Training Tasks and Skill Requirements (1000 Hours Minimum)**

### **Training hours breakdown of the knowledge and skills\***

- OJL - 944 hours
- RTI - 56 hours
  - Classroom instruction - 40 hours
  - Online Instruction - 8 hours
  - Independent Study - 8 hours

*\* Prior knowledge and equivalency testing for RTI is permitted*

### **Properly mount and connect fire alarm system components.**

#### **Required Knowledge:**

- Representation of system components, cabling, and dimensions on system drawings
- Terminology related to basic components and installation operations
- Roles of codes and standards in fire alarm systems work
- Scopes of the IBC, IFC, and IRC
- Scopes of NFPA 1 and 101 codes
- Scopes of NFPA 70 and 72 standards
- Types of fire alarm systems and associated devices
- Tools required for mounting and connecting fire alarm system components, and their operation
- Materials required for mounting cables and devices
- Functions performed in a fire alarm system by manual fire alarm boxes, automatic fire detection devices, audible signaling appliances, visible signaling appliances, and annunciators; and how they are operated

#### **Skills:**

- Communicate with other team members about the installation process
- Recognize the on-site hierarchy of authority
- Properly use hand and power tools to mount and connect fire alarm system components
- Apply proper installation techniques under supervision
- Use project plans and specifications to determine dimensions, type of materials, elevations, and locations.
- Mount and fasten field devices, sensors, and video cameras; and connect power and signaling wiring.
- Assist with acceptance testing by activating initiating and notification devices or visually identifying remote annunciation of devices.

### **Practice correct wiring methods.**

#### **Required Knowledge:**

- Representation of system components, cabling, and dimensions on system drawings
- Tools required for mounting cables, wires, conduit, and fixtures, and their operation
- Types of outlet and junction boxes and their applications
- Types of wire and cable, and their applications
- Types of conduit and their applications
- Materials required for mounting cables

**Skills:**

- Use project plans and specifications to determine dimensions, type of materials, elevations, and locations
- Properly use hand and power tools to mount cables, wires, conduit, fixtures, and supports
- Apply proper installation techniques under supervision
- Feed cables through access holes, roof spaces, and cavity walls to reach fixture outlets
- Position and terminate cables, wires, and strapping

**Practice work-site safety**

**Required Knowledge:**

- OSHA Publications
- American Red Cross First Aid and Safety Handbook
- Potential hazards associated with hand and power tools
- Potential hazards associated with electrical cables and equipment
- Materials that require special handling and/or disposal methods
- Potential hazards associated with lifts, ladders, and other equipment

**Skills:**

- Alert the supervisor to any unsafe conditions at the work site.
- Practice safe usage of hand and power tools.
- Practice safe usage of work-site equipment in accordance with the manufacturer's guidelines.
- Recognize common injuries or conditions, such as cuts, sprains, electrical shock, heat exhaustion, frost bite, fractured limbs, head injuries, or heart attacks.
- Apply basic first aid for common injuries or conditions utilizing materials found in a typical first aid kit or elsewhere at the work site.
- Practice safe ladder usage.
- Use proper fall protection equipment and practices.
- Properly use head, eye, hearing, and foot protection.
- Read and interpret materials safety data sheets (MSDS), and identify hazards information on those forms.
- Identify any hazardous locations specific to the facility where work will be performed.

**Perform simple maintenance tasks and operate basic test equipment.**

**Required Knowledge:**

- Purpose and operation of basic test equipment
- NFPA 72 test and inspection form

**Skills:**

- Read, interpret, and follow manufacturers' published instructions for fire alarm system component operation and maintenance.
- Clean fire alarm system components.
- Operate smoke detector testers, heat sources, battery testers, sound pressure meters, VOMs, manometers, and air flow meters in support of the testing of a fire alarm system.

## **Level Two Training Tasks and Skill Requirements (3000 Hours Minimum)**

### **Training hours breakdown of the knowledge and skills\***

- OJL - 2856 hours
- RTI - 168 hours
  - Classroom instruction - 120 hours
  - Online Instruction - 24 hours
  - Independent Study - 24 hours

*\* Prior knowledge and equivalency testing for RTI permitted*

### **Verify the occupancy classification and the requirements of applicable codes and standards for specified premises.**

#### Required Knowledge:

- IBC, IFB, and IRC
- NFPA 1 and 101

#### Skills:

- Read and interpret commonly referenced code requirements.
- Identify code requirements that apply to specified occupancies.
- Verify that general site conditions are consistent with occupancy classifications designated by others.
- Communicate findings to project supervisor.

### **Assemble project information for shop drawings.**

#### Required Knowledge:

- Elements of a shop drawing
- Types of information found on fire protection, architectural, mechanical, electrical, structural, and site plans
- Types of performance information found in contractual documents, including cutting and patching, site access, parking and test requirements, etc.
- Types of information found in project specifications

#### Skills:

- Read and interpret project specifications.
- Determine the scope of the project.
- Read and interpret drawings with basic information about the facility, the proposed fire alarm system, and other building systems.
- Derive facility and building system information from architectural, mechanical, electrical, structural, and site plans.

### **Survey site conditions to verify that they support the requirements of the fire alarm system design and layout.**

#### Required Knowledge:

- IBC, IFB, IRC, and NFPA 101
- NFPA 70 and 72

- Building features and construction materials
- Basic terminology of codes and standards
- Building construction and design (e.g. risers, electrical closets, etc.)

**Skills:**

- Measure lengths, heights, and ceiling pitch.
- Verify floor plans and collect information about building features, dimensions, and materials as relevant to a fire alarm system project.
- Verify that room identification and apparent use is consistent with floor plans.
- Record building features and details that must be considered in designing and installing a system to meet applicable standards.
- Inspect installation sites and study work orders, building plans, and installation manuals in order to determine materials requirements and installation procedures.

**Draft simple shop drawings.**

**Required Knowledge:**

- IBC, IFC, IRC, and NFPA 1 and 101
- NFPA 70, 72, 170, and applications of other NFPA standards
- Types of information found on architectural, fire protection, mechanical, electrical, structural, site plans, and related design drawings
- Types of information found in project specifications
- Use of architectural scales in preparation and reading of drawings
- Types of information presented in a shop drawing

**Skills:**

- Use computerized drafting tools.
- Draft a correctly oriented, scaled, lined, and dimensioned layout drawing with correct symbols, legend, and title block.
- Prepare basic fire alarm systems layouts in accordance with standards.
- Calculate the number and spacing of fire detection devices and notification appliances required for a given space.
- Prepare materials lists from project specifications.
- Deliver prepared drawings to supervisor for approval.

**Determine power supply and loading requirements for fire alarm systems.**

**Required Knowledge:**

- NFPA 70 and 72
- Basic electrical circuits
- Basic mathematics
- Types of information found in project specifications

**Skills:**

- Determine the requirements of NFPA 72 for primary and secondary power for various types of fire alarm systems.
- Read and interpret manufacturers' published instructions.
- Read and interpret electrical plans and related design drawings
- Perform battery standby calculations.
- Perform voltage drop calculations.
- Perform circuit loading calculations.
- Confirm that power supply for the proposed layout and any related existing conditions comply with codes, standards, project specifications, and manufacturers' requirements.
- Determine the minimum wire size and maximum distance for the application.

## **Identify applicable codes, standards, and listings.**

### Required Knowledge:

- Purposes and applications of the IBC, IFC, and IRC, and NFPA 1, 70, 72, 101, and 170
- Roles of authorities having jurisdiction and industry professions in enforcing codes and standards
- Purposes and applications of NRTLs (Nationally Recognized Testing Laboratories) and associated standards
- Methods for review and testing of fire alarm signaling equipment

### Skills:

- Identify the common codes and standards that address specific project activities or scopes of work.
- Identify and interpret the principles and requirements of standards for system alarm initiating devices, system control functions, and fire suppression systems.
- Identify requirements and listings for various system components.

## **Read fire alarm and other building system plans.**

### Required Knowledge:

- Construction symbols and terminology
- Elements of shop drawings
- Information contained in architectural, fire protection, mechanical, electrical, and structural site plans, and related design drawings and specifications

### Skills:

- Review various plans (fire alarm and other trades) that may impact the fire alarm system installation to identify any changes, modifications, special conditions, or requirements that affect the project.
- Recognize the full scope of work at the site, and its impact on the fire alarm project.
- Identify all types of new and existing fire alarm equipment and initiating devices shown on plans.
- Identify the equipment installed by construction industry trades, such as architectural, mechanical, electrical, and structural, and its impact on fire alarm system installation.
- Determine the locations of structural obstructions and mechanical systems shown on plans.

## **Develop an installation plan based upon field conditions and project requirements.**

### Required Knowledge:

- NFPA 70 and 72
- Names, functions, and requirements of the types of fire alarm systems (including cabling requirements, initiating devices, control functions, alarm notification appliances, type of power required, signaling services, and automatic detectors in use)
- Names and functions of the types of fire alarm signaling systems
- Types of mounting devices and fasteners, and their applications
- Structure and types of information in shop drawings
- Structure and types of information in the project schedule
- Skills:
  - Coordinate contracted work with the project manager.
  - Coordinate labor requirements with the project supervisor.
  - Identify critical project milestones with the project supervisor.
  - Communicate changed site conditions to the project supervisor.
- Use standard plans and specifications of jobs to identify dimensions, type of materials, elevations, and locations.
- Plan the installation requirements for manual fire alarm boxes, automatic fire detection devices,

- audible signaling appliances, visible signaling appliances, control components, and annunciators.
- Plan the installation requirements for terminations at the control panel for electrical, initiation, and NAC circuits, and for supervising station communication pathways in order to connect components.
- Communicate the project plan to the project supervisor.

### **Accept delivery of materials.**

#### Required Knowledge:

- Basic logistics terminology
- Documents used in the delivery, acceptance, and storage of materials

#### Skills:

- Coordinate delivery schedule and storage requirements with other trades or projects.
- Determine where, and how urgently, the materials are needed.
- Confirm the delivery of materials and record them as inventory.
- Coordinate the storage of delivered materials on-site and off-site.
- Follow established procedures from order placement to installation of equipment.
- Communicate with supervisor relative to project needs.

### **Install fire alarm systems.**

#### Required Knowledge:

- NFPA 70 and 72
- Types of fire alarm systems (including electrical requirements, initiating devices, control functions, alarm indicating appliance, power requirements, signaling services, and automatic detectors in use)
- Names, functions, and requirements of the types of fire alarm systems (including cabling requirements, initiating devices, control functions, alarm notification appliance, type of power required, signaling services, and automatic detectors in use)
- Names and functions of the types of fire alarm signaling systems
- Types of mounting devices and fasteners, and their applications
- Listing requirements and limitations
- Information obtained from contract documents
- Information obtained from the project schedule

#### Skills:

- Coordinate installation requirements with the project supervisor.
- Read and interpret manufacturers' literature.
- Determine conduit, raceway, and conductor requirements in accordance with project specifications, installation documents, and standards.
- Connect fiber-optic cable.
- Verify the correct cable type, or substitution, for the application.
- Use standard plans and specifications of jobs to identify dimensions, type of materials, elevations, and locations.
- Oversee the mounting of devices and appropriate fasteners to mount control panels and other system components.
- Install manual fire alarm boxes, automatic fire detection devices, audible signaling appliances, visible signaling appliances, control components, and annunciators.
- Perform functional terminations at the control panel for electrical, initiation, and NAC circuits, and for telephone wiring in order to connect components.
- Use bar-code readers, dip switches, rotary switches, and configuration IR tools to address field devices.

### **Conduct a system start-up and diagnostics.**

#### Required Knowledge:

- NFPA 72
- Roles of owner, authorities, other professions and stakeholders
- Operation and functions of various system components
- Required documentation

**Skills:**

- Read and interpret manufacturers' requirements.
- Read and interpret project specifications, drawings, and other contract documents.
- Read and interpret a sequence-of-operations matrix.
- Prepare a testing checklist and criteria.
- Read and follow manufacturers' specifications.
- Perform the tasks on the pre-power-up checklist.
- Use diagnostic tools, such as ohmmeters, VOMs, and manufacturers' software, to confirm power-up and operation of system components.
- Monitor functionality and response of fire alarm system components.
- Provide required notifications and documentation.
- Coordinate start-up requirements with project supervisor.

**Use computer applications to program a system.**

**Required Knowledge:**

- NFPA 72
- Fire Alarm System devices and their functions
- Basic programming concepts
- System manufacturer's programming certifications, where applicable
- Matrix of operation, project specifications and related project documents
- Site's environmental and operational conditions
- Requirements for acceptance testing and maintenance that may affect programming
- Computer/device connections, interfaces, and I/O port designations

**Skills:**

- Read and interpret manufacturers' software specifications and instructions.
- Interpret system drawings, specifications, and sequence-of-operations matrices.
- Use project specifications and AHJ (Authority Having Jurisdiction) communications to determine functional requirements, including sensitivity settings.
- Assign and document addresses of field devices.
- Coordinate programming, download, and Pre-Test requirements with project supervisor.
- Perform site-specific programming.
- Use programming tools to adjust the sensitivity of units.
- Coordinate proper operation of all interfaced equipment and building systems of other trades.
- Provide required programming documentation.

**Troubleshoot system problems.**

**Required Knowledge:**

- NFPA 70
- NFPA 72
- Functions and operation of control and field devices
- Connection, operation, and application of basic test equipment

**Skills:**

- Determine the characteristics of specific field service components.
- Interpret system drawings, specifications, and sequence-of-operations matrices.
- Read and follow manufacturers' specifications and instructions for cleaning, inspecting, operating, testing, and adjusting the system and/or its components for continuing, maximum operability.
- Calculate equivalent resistances and voltage, current, and resistance in/across components or branches of series and parallel circuits.

- Operate the system's controls.
- Use diagnostic tools such as ohmmeters, VOMs and software.
- Select basic electrical and electronic tests; apply them at the correct points in the system to determine the cause of a system problem.
- Test equipment and circuits for expected operation and nominal electrical characteristics.
- Identify and correct fire alarm system troubles.

### **Perform system commissioning.**

#### Required Knowledge:

- NFPA 72
- Roles of owner, stakeholders, authorities, and other professions
- Types of information found in manufacturer's literature
- Types of information found in project specifications, drawings, and other contract documents
- Operation and functions of various system components
- Required documentation
- Operation and application of testing devices and equipment

#### Skills:

- Implement established commissioning procedures.
- Read and interpret a sequence-of-operations matrix.
- Prepare a testing checklist and criteria.
- Read and follow manufacturers' specifications.
- Monitor functionality and response of fire alarm system components.
- Provide required notifications and documentation.
- Coordinate testing requirements with project supervisor.

### **Compile test completion data.**

#### Required Knowledge:

- NFPA 72
- Roles of owner, authorities, and other stakeholders, and what test results should be communicated to them
- Types of system documentation and the types of information recorded in each

#### Skills:

- Provide content of test results in legible, industry format in accordance with fire codes, standards, and guidelines.
- Record test results in the appropriate document.
- Identify code deficiencies and inform the owner and AHJ in writing.
- Complete a Record of Completion form.
- Provide required documentation to the appropriate individuals at the appropriate time.

### **Create as-built documentation.**

#### Required Knowledge:

- NFPA 72 requirements for as-built documentation
- Purpose and types of information included on fire alarm system as-built drawings
- Representation of information on fire alarm system as-built drawings

#### Skills:

- Determine variations of the installation that deviate from the layout or design drawings.
- Use correct symbols and techniques to represent the current state of the system.
- Mark up (redline) drawings on site.
- Prepare, compile, and distribute as-built documentation.
- Maintain accurate records on site.

### **Provide training to the customer/end user.**

Required Knowledge:

- NFPA 72
- Types of documents and information that should be conveyed and explained to the end user

Skills:

- Identify the relevant design details that are applicable to the project.
- Determine the inspection, testing, maintenance, and records retention requirements for the system.
- Determine the training needs of the customer/end user, in accordance with the equipment manufacturer's specifications and the AHJ's requirements and procedures, including approval authorities, location of system components, and care and maintenance procedures.
- Develop and conduct a training course, using appropriate resources and communication formats.
- Post instructions for the fire alarm system.
- Document end user training.
- Communicate clearly and accurately, both verbally and in writing.

### **Apply fire stopping practices.**

Required Knowledge:

- NFPA 72
- IBC
- Fire stopping requirements, principles, and techniques for various applications such as fire doors, fire walls, partitions, etc. and for each penetration size and type

Skills:

- Read and interpret manufacturers' published and NRTL-listed installation instructions and testing procedures.
- Apply fire stopping for all fire alarm related penetrations of fire rated construction.
- Provide required documentation of fire stopping installation, including sign off and AHJ approval.
- Communicate about fire stopping requirements with project supervisor.

### **Mitigate worksite safety hazards.**

Required Knowledge:

- Typical safety practices derived from OSHA
- OSHA 1910.164 (Fire Detection Systems)
- OSHA 1910.165 (Employee Alarm Systems)
- Employ specific safety standards and requirements
- Classification of fires and fire extinguishers
- Appearance and meaning of a lockout device/tag
- Hazards associated with confined spaces

Skills:

- Identify potential hazards in the workplace.
- Identify safety features of equipment and verify that these are in place and the equipment is in good condition.
- Select appropriate personal protective equipment for specific tasks and worksite conditions, and verify that it is in good condition.
- Verify electrical safety at the project site.
- Prepare proper documentation.
- Communicate safety issues with project supervisor.

### **Follow applicable maintenance standards and procedures.**

Required Knowledge:

- IFC
- NFPA 72

- Manufacturer's requirements
- Owner's site-specific operational procedures
- Procedures and test equipment associated with required maintenance testing of fire alarm systems, components, power supplies, and cables

**Skills:**

- Determine inspection, testing, and maintenance requirements stated in NFPA standards or in manufacturers' specifications.
- Verify current calibration of equipment.
- Operate specialized test equipment.
- Identify potential problems or failures and report them to the appropriate individual.
- Notify appropriate parties of impairments.
- Follow impairment procedures established by authorities, owner, and supervisor.
- Document inspection, testing, and maintenance activities and results, and communicate record retention requirements to document holders.

**Troubleshoot and repair system faults.**

**Required Knowledge:**

- NFPA 70 and 72
- Functions and operation of system components
- Actions or conditions required for correct operation of system components

**Skills:**

- Determine requirements and procedures for conducting tests per manufacturer's published instructions.
- Perform periodic equipment and circuit testing according to standards and/or manufacturer's specifications.
- Perform basic electrical and electronic tests for circuitry and component function.
- Operate the system's controls.
- Identify problems that arise in a fire alarm system.
- Determine the cause of the problem and take correct actions.
- Identify potential issues and refer to the appropriate person.

**Prepare, distribute, and maintain documentation.**

**Required Knowledge:**

- NFPA 72 requirements for documentation
- Responsibilities of owners, contractors, authorities, and other professions for the preparation, distribution, and retention of documentation

**Skills:**

- Prepare technical reports.
- Communicate to the document holder the requirements for retention.
- Gather applicable job documentation.
- Communicate status of documents with supervisor.

**Train and mentor Level I technicians.**

**Required Knowledge:**

- Standard business practices
- Applicable codes and standards

**Skills:**

- Communicate standard business practices to subordinates.
- Convey the requirements of codes and standards to subordinates.

### **Provide on-site coordination for simultaneous installation activities.**

#### Required Knowledge:

- Hierarchy of authority on the job site
- Reasons for performing certain installation tasks before others, and before or after work performed by other trades

#### Skills:

- Gather information about personnel and resource availability, worksite status, and progress of work.
- Prioritize and coordinate project tasks.
- Communicate with Level I technicians, the project supervisor, and the project manager.

### **Provide on-site coordination of available personnel to maintain established schedules.**

#### Required Knowledge:

- Hierarchy of authority on a project
- Skills and qualifications needed for various fire alarm system installation tasks

#### Skills:

- Coordinate tasking with staff on-site.
- Communicate with on-site personnel.
- Communicate staffing needs to supervisor.
- Coordinate project timing and scheduling.

### **Coordinate the technical aspects of a job on-site.**

#### Required Knowledge:

- Responsibilities of owners, contractors, authorities, and other professions for system plans and installation procedures.
- Computer terminology and basic operations.

#### Skills:

- Prepare basic technical reports.
- Operate a computer (navigate directories; download, install, and back-up software; prepare simple text documents and enter data into spreadsheets; and prepare email correspondence).
- Recognize technical issues in need of resolution.
- Communicate with supervisor(s) to resolve technical issues.
- Explain the scope of the fire alarm job and any other work being performed at the site.

### **Identify and report personnel issues.**

#### Required Knowledge:

- Indicators of drug or alcohol abuse, lack of job qualifications, lack of initiative, unreliable attendance, insubordination, harassment, or interpersonal conflict.

#### Skills:

- Identify on-site personnel issues.
- Recommend action to immediate supervisor.

### **Promote a safe work environment.**

#### Required Knowledge:

- Typical safety practices derived from OSHA
- OSHA 1910.164 (Fire Detection Systems)
- OSHA 1910.165 (Employee Alarm Systems)
- Sources of MSDS and worksite safety information
- Work site hazards and their mitigation

#### Skills:

- Distinguish between safe and unsafe practices.

- Explain worksite safety requirements and practices to team members.
- Gather pertinent MSDS information and ensure that all OSHA regulations and site safety guidelines are adhered to.

### **Identify and report on-site problems or conflicts that impact the project schedule.**

#### Required Knowledge:

- Roles and responsibilities of various contractors, professionals, and authorities on a typical job site
- Factors that can impact work progress

#### Skills:

- Establish communication with all project trades.
- Determine the impact that a change in some part of a fire alarm project's planning, permitting, resources, performance, or completion is likely to have on the project schedule.
- Determine the impact that a change in another contractor's work plans or work product is likely to have on a fire alarm project schedule.
- Determine the individual who can resolve the problem and/or the individual to whom the problem should be reported.

## **Program Administration**

National Time and Signal Corporation recognizes the need for continuous training to maintain a high level of skill and competence demanded by this industry. NATSCO will administer the program with the following responsibilities:

1. Review apprenticeship activities in accordance with this program.
2. Establish minimum standards of education and experience required of apprentices
3. Meet with apprentices at least every 60 days to review progress in training and recommend improvements or modifications of training
4. Arrange for tests and evaluations for determining the apprentice's progress in knowledge and skills
5. Maintain records of testing and training of each apprentice.
6. Certify the apprentices have successfully completed their apprenticeship program.

## Adoption of Apprenticeship Standards:

National Time & Signal Corporation hereby adopts these Standards of Apprenticeship on this \_\_\_\_\_ day of \_\_\_\_\_.

---

Signature of Sponsor

---

Printed Name

Title

*Sponsor(s) may designate the appropriate person(s) to sign the Standards on their behalf.*

To: Electrical Administration Board

Re: Apprenticeship Program Application and Review

## FIRE ALARM SPECIALTY TECHNICIAN

### APPRENTICESHIP TRAINING PROGRAM SUMMARY

#### Company Introduction:

National Time and Signal Corporation (Natsco) is a Michigan manufacturer and pioneer in the fire alarm industry in America. Founded in 1918, fire alarm systems, clock systems and other electrical building systems formed the core of the firm's engineering and product manufacturing activities. Today, Natsco is a recognized leader within the industry, delivering unique, high technology solutions such as interactive graphical display of building fire scenarios and IP based communications to connect the fire system status and graphics to remote responders, fire, police and technicians.

In 1983, the implementation of PA 144, ushered in new and much needed fire safety procedures, responsibilities and certification for firms engaging in the design, installation or modification of a required fire alarm system. PA 144 mandated that only one certified firm per project would be responsible to carry out the requirements of the Act and Natsco implemented rigorous training programs to ensure design and service capabilities supported the new certification procedures.

#### Apprenticeship Program Training:

Over the past 30 years, Natsco has successfully trained and certified a great number of technicians and system designers. In 1994, The Electrical Administration Board adopted a requirement that Fire Alarm Specialty Technicians be certified by The National Institute for Certification in Engineering Technologies (Nicet) to Level II. Nicet Level II certification formed the basis of Natsco training during the past two decades. Nicet Level II embodies all of the

elements of an Apprenticeship Training Program, on-the job experience, skills development training and testing, work experience verification and recommendations all conducted under the auspices of an independent, 3<sup>rd</sup> party, professional engineering organization.

Responding the demands of the State of Michigan and Nicet, Natsco developed its training program around a significant amount of classroom instruction and the mandatory on-the-job learning experience. Classroom training is team based and all apprentices receive field instruction from State of Michigan certified Fire Alarm Specialty Technicians.

Current instruction team, specialty skills areas and instructor qualifications:

**Building Codes, NFPA, ADA. Roles and Responsibilities of Construction Team Members and Construction Processes.**

Richard Fulton; Instructor

1973, Michigan State University BA

1973-79 Controls manufacturing, applications engineering, purchasing

1979-85 Systems design and sales services to Architects/Engineers and Contractors.

1985-Present, Natsco; President and CEO

1988, Founding Director of Michigan Branch of the Automatic Fire Alarm Association (MI-AFAA), served as President, Secretary and Director at large. MI-AFAA was the originator and driver for the adoption of Nicet Level II certification in Michigan

1998 - Ad hoc committee participant to the State Fire Safety Board to develop rules for school fire safety.

Nicet Level II

Fire Alarm Contractor, License # 5103256

Industry Memberships: NFPA, AFAA, BFAAM

## **Installation, Project Planning & Management, Job Site Safety**

Michael Acker; Instructor

1995-1998, Natsco; Fire alarm system inspection, commissioning, trouble shooting/repair.

1998-Present, Natsco; Fire alarm system installation project manager. Notable achievements Macomb County Community College, 43 building, 5 campus networked fire alarm system.

Project management responsibilities include; materials management, proper equipment and tool maintenance and safety, project meetings, asbestos and lead awareness.

Nicet Level II

Fire Alarm Specialty Technician License # 5201555

Evan Jackson; Co-instructor

2003-2010, Natsco; Fire alarm system inspection, commissioning, trouble shooting/repair.

2010-Present, Natsco; Fire alarm system installation project manager

2014, Completing BA degree, Building Code Administration, Central Michigan University

Nicet Level II

Fire Alarm Specialty Technician License # 5202264

## **Troubleshoot/repair, Fire Protection/Suppression System Requirements, System Commissioning**

Barry Harms; Instructor

1981-1992, USAF, Basic Electronics, Missile Maintenance Squadron

1993-1996, Pitney Bowes field machinery repair, customer relations

1996-2004, Healey Fire Protection; Design, Install, Maintain Special Hazard Fire Suppression (Halon 1301, FM200, Dry Chem, Inergen, CO2, Water Deluge)

2004-Present, Natsco; Fire Alarm System troubleshoot/repair expert and suppression trade coordinator.

Fire Alarm Specialty Technician License # 5202011

## **Applications Engineering, "Blueprints", "As-builts", Document Procedures**

Sandra Byson; Instructor

1999, Associates in Engineering, Midland Technical College

2000-2008,

2008-2013, Natsco; Fire alarm system installation and plan review CAD design documentation, voltage drop calculations, "as-built" documentation, industry technical support

Nicet Level II

Gerad Sarb; Co-instructor

2010, Associates in Electronics Engineering Technology, Wayne County Community College

2011, Natsco; Field services technical support, fire alarm installation and plan review CAD design documentation, technical support

Nicet Level II

## **IT, Human Interfaces, IP Connectivity Solutions**

Sid Bottoms; Instructor

2003, Master of Science in Engineering and Computer Science, University of Michigan

2004-2013, Natsco; Fire alarm system product development, lead software developer responsible for web-based fire alarm system interfaces, interactive graphics for first responder fire incident, special hazard, fire suppression displays.

## **Fire Alarm Products, Characteristics of Electricity, NEC, Underwriters Laboratories**

Leo Mullins; Instructor

1981, BS Electronic Technology Engineer, St. Clair College, Ontario, Canada

1985-1989, Edwards, Unit of General Signal; Fire Alarm Product Engineering Technologist

1989-1992, Edwards; Fire Alarm Hardware Engineering Supervisor

1992-1995, Edwards; Supervisor Fire Alarm Technical Services

1995-Present, Natsco; Supervisor, Fire Alarm Product Design Engineering



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

Date Mailed from BCC: 10-29-2013

Richard W. Fulton  
National Time & Signal Corp



Document E-13-80  
Course Review

**NOTICE OF MICHIGAN ELECTRICAL ADMINISTRATIVE BOARD MEETING**

You are hereby notified that in accordance with the Administrative Procedures Act, 1969 PA 306, MCL 24.201 *et seq.*, and the Electrical Administrative Act being 1956 PA 217 MCL you are scheduled to appear before the Michigan Electrical Administrative Board on:

Date: November 7, 2013  
Time: 9:30 a.m.  
Location: Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes  
2501 Woodlake Circle, Conference Room 3  
Okemos, MI 48864

This notice is to provide you the opportunity to provide testimony to the board regarding proposed course. If you wish to offer any document(s) into evidence, you must file the documentation with Electrical Division prior to the meeting or bring fifteen (15) copies of the information you wish to enter for the board's consideration. In the event you are unable to attend the meeting or you choose not to appear before the board, please contact the Electrical Division in advance of the meeting. In the event that you fail to appear at the meeting as scheduled, a decision may be entered in your absence.

Accompanying this notice is a report outlining our findings and recommendation based upon the Electrical Administrative Act being 1956 PA 217 MCL and the documentation you have provided at the time of mailing. Any questions regarding this matter may be directed to the Electrical Division at (517) 241-9320.

  
Dan O'Donnell, Chief, Electrical Division

10/29/2013  
Date

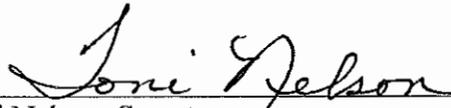
*Providing for Michigan's Safety in the Built Environment*

LARA is an equal opportunity employer  
Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.  
P.O. BOX 30254 • LANSING, MICHIGAN 48909  
www.michigan.gov/bcc • Telephone (517) 241-9302 • Fax (517) 241-9570

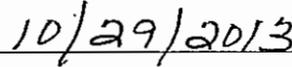
FAST Apprentice Program Review  
Richard Fulton  
Document No. E-13-80  
November 7, 2013  
Page 2 of 4

**PROOF OF SERVICE**

I hereby state, to the best of my knowledge, information, and belief, that a copy of the foregoing document was served on this date upon all parties and/or attorneys of record in this matter by email to those parties employed by the State of Michigan and by first class mail to the remaining parties at their respective addresses as disclosed below.



\_\_\_\_\_  
Toni Nelson, Secretary  
Electrical Division  
Bureau of Construction Codes



\_\_\_\_\_  
Date

Richard W. Fulton  
National Time & Signal Corp

  
BCC Administration