



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
LANSING

STEVEN H. HILFINGER
DIRECTOR

March 26, 2011

E-11- 12

TO: Members of the State Electrical Administrative Board
FROM: Dan O'Donnell, Chief, Electrical Division
SUBJECT: Appeal by Kurtis C. Kramer to take the journeyman exam

APPLICANT REPRESENTATIVE:

Kurtis C. Kramer

PROJECT:

N/A

AUTHORITY:

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

REQUEST:

Requesting an appeal to sit for the journeyman electrician examination.

APPLICABLE RULE:

PA 217 of 1956, 338.883a Sec. 3a. (c), 338.883d Sec. 3d. (1), (a), (b), (c), (d), 338.883e Sec. 3e. (1), 338.885 Sec. 5. (1), 338.887 Sec 7 (2), and Electrical Administrative Board General Rules R338.1005a Rule 5a. (1).

FINDINGS:

The Electrical Division received an application from Mr. Kramer to sit for the journeyman electrician examination on April 15th, 2011. Additional documentation submitted by Mr. Kramer with his application included a certificate of completion of an electrical apprenticeship

Electrical Administrative Board

May 26, 2011

Page 2

issued by the Ohio State Apprenticeship Council sponsored by Associated Builders and Contractors in conjunction with the National Center for Construction Education and Research (NCCER). Mr. Kramer did not provide any information that indicated he was licensed as a journey or master electrician in any other state. Mr. Kramer did supply a copy of a Master Class B Electrician License issued by the State of Iowa to Richard Storch Jr. The information Mr. Kramer provided regarding the State of Iowa Class B master electrician license held by Mr. Storch indicates that a Class B master electrician shall not be authorized to plan, layout, or supervise the installation of electrical wiring. Mr. Storch signed a letter as the master electrician that supervised and worked with Mr. Kramer on projects for Custom Agri Systems Inc. which has operations in both Ohio and Michigan. Mr. Kramers documentation indicates that he has been an employee of Custom Agri Systems Inc. from 4/6/2005 and is presently employed there. Mr. Kramer also submitted documentation that he was employed by Bartels Electric Inc. located in Napoleon, Ohio, from 3/13/2000 until 2/27/2004. Michigan statute requires that an individual must have not less than 8000 hours of experience over a period of not less than 4 years under the direct supervision of a person licensed under the act to qualify to sit for the journeyman electrician examination.

RECOMMENDATION:

Staff recommends that the board consider the experience that Mr. Kramer has attained along with his completion of an electrical apprenticeship training program to determine whether that experience and training is equivalent to that required by the State of Michigan.

Custom Agri Systems, Inc.

CAS Napoleon
255 Co. Rd. 255
Napoleon, OH

CAS Upper
1289 N. Warpole St.
Upper Sandusky, OH

CAS Attica
14-056 US Rt. 224
Attica, OH

CAS Michigan
793 East Copeland Rd
Montgomery, MI

Electrical Administrative Board
DELEG/BCC/Electrical Division
7150 Harris Dr.
Lansing, MI 48909

April 25, 2011

REF: Appeal Journeyman Exam

Dear Board:

I am appealing the decision of the Electrical Board for the Journeyman Electrical exam for me for the state of Michigan. I am asking to meet with the Board on May 26, 2011 to appeal.

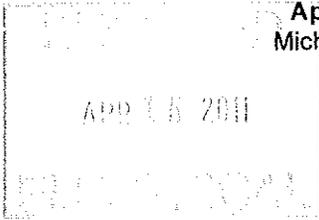
Thank you for your consideration in this matter.

Sincerely,



Kurtis Kramer

Application for Journeyman Electrician Examination
 Michigan Department of Energy, Labor & Economic Growth
 Bureau of Construction Codes / Electrical Division
 P.O. Box 30255, Lansing, MI 48909
 517-241-9320
 www.michigan.gov/bcc



Agency Use Only

6336161

Examination Fee: \$100.00 (nonrefundable)

Authority: 1956 PA 217 Completion: Mandatory Penalty: Examination will not be given	DELEG is an equal opportunity employer/program. Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.
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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.
- Provide **proof of participation in an approved electrical training program** (see back for additional information).
- 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) <i>Kramer, Kurtis C.</i>	APPRENTICE REGISTRATION NUMBER	DATE OF BIRTH	LAST 4 DIGITS OF SOCIAL SECURITY NUMBER* <i>XXX-XX-</i>
ADDRESS	CITY <i>IF</i>		
COUNTRY	STATE <i>OH</i>	ZIP CODE	TELEPHONE NUMBER (Include Area Code)

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>MAY 2011</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.

*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 <i>Custom Agri Systems</i>		DATES OF EMPLOYMENT (MM/DD/YY) BEGINNING: <i>4/6/2009</i> ENDING: <i>current</i>	
ADDRESS <i>255 Co. Rd. R Corp. office</i> <i>793 E. Copeland Rd., Branch Office</i>		CITY <i>Napoleon</i> <i>Montgomery</i>	STATE <i>OH</i> <i>MI</i> ZIP CODE <i>43545</i> <i>49255</i>
TYPE OF WORK PERFORMED <i>Managing elec. crews; order + plan jobs, layout elec. wiring; size equip. + load schedules; program plc's; trouble shoot + service; design + install controls, AC + DC Drives. + wind turbines; commercial + industrial Agricutural applications</i>			
NAME OF EMPLOYER <i>S & K Power, LLC</i>		DATES OF EMPLOYMENT (MM/DD/YY) BEGINNING: <i>2/04</i> ENDING: <i>4/05</i>	
ADDRESS <i>755 W. Clinton St.</i>		CITY <i>Napoleon</i>	STATE <i>OH</i> ZIP CODE <i>43545</i>
TYPE OF WORK PERFORMED <i>Manage Electrical operations, estimating, design + install wiring in residential + commercial</i>			

See Next Page

Note: If you have completed an electrical training program from an approved Related Technical Instruction (RTI) provider submit a copy of your transcript or USDOLOA certification.

If you are currently participating in an electrical training program, the Approved Related Technical Instruction Provider must complete the following section.

Certification and Signature of Approved Related Technical Instruction Provider

I certify that _____ is currently participating in an electrical training program
(Printed Name of Applicant)

approved by the Electrical Administrative Board and the USDOLOA.

NAME OF RTI PROVIDER _____

SIGNATURE OF AUTHORIZED REPRESENTATIVE FROM RTI PROVIDER _____ TELEPHONE NUMBER OF AUTHORIZED REPRESENTATIVE (Include Area Code) _____ DATE _____

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 falsification of any statement is cause for rejection of this application or revocation of license, if issued.

APPLICANT'S SIGNATURE *Kurtis Kravos* DATE *4-12-11*



Agency Use Only

Approved for Exam <input type="checkbox"/> Yes <input type="checkbox"/> No						Validation Area	
Date of Exam	Score	Absent	Date of Exam	Score	Absent	Exam Info: 103 16794122-1 04/14/11 CRN#: 2039 Amt: \$100.00 (04) CUSTOM AGRY SYSTEMS LLC	

Date Approved by EAB _____

Experience Record (attach additional sheets if necessary)

NAME OF EMPLOYER <i>Bartels Electric Inc.</i>		DATES OF EMPLOYMENT (MM/DD/YY) BEGINNING: <i>5/02</i> ENDING: <i>2/04</i>	
ADDRESS <i>13-394 Co. Rd. 5</i>	CITY <i>Napoleon</i>	STATE <i>OH</i>	ZIP CODE <i>43545</i>
TYPE OF WORK PERFORMED <i>Installing wiring in commercial + industrial projects, estimating, projects in banks, churches, restaurants, factories, + schools</i>			
NAME OF EMPLOYER		DATES OF EMPLOYMENT (MM/DD/YY)	
ADDRESS		CITY	STATE
TYPE OF WORK PERFORMED		ZIP CODE	

Note: If you have completed an electrical training program from an approved Related Technical Instruction (RTI) provider submit a copy of your transcript or USDOLOA certification.

If you are currently participating in an electrical training program, the Approved Related Technical Instruction Provider must complete the following section.

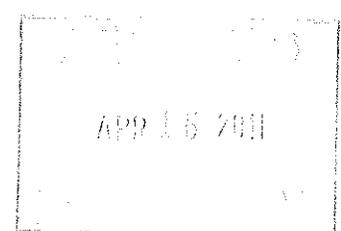
Certification and Signature of Approved Related Technical Instruction Provider

N/A

I certify that _____ is currently participating in an electrical training program (Printed Name of Applicant)		
approved by the Electrical Administrative Board and the USDOLOA.		
NAME OF RTI PROVIDER		
SIGNATURE OF AUTHORIZED REPRESENTATIVE FROM RTI PROVIDER	TELEPHONE NUMBER OF AUTHORIZED REPRESENTATIVE (Include Area Code)	DATE

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 falsification of any statement is cause for rejection of this application or revocation of license, if issued.	
APPLICANT'S SIGNATURE	DATE



Agency Use Only

Approved for Exam <input type="checkbox"/> Yes <input type="checkbox"/> No						Validation Area
Date of Exam	Score	Absent	Date of Exam	Score	Absent	

Date Approved by EAB _____

Custom Agri Systems, Inc.

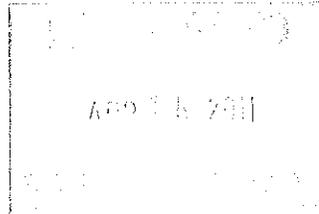
CAS Napoleon
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CAS Upper
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Upper Sandusky, OH

CAS Attica
14-056 US Rt. 224
Attica, OH

CAS Michigan
793 East Copeland Rd
Montgomery, MI

Electrical Administrative Board
DELEG/BCC/Electrical Division
7150 Harris Dr.
Lansing, MI 48909



April 12, 2011

Tran Info:117 16794122-2 04/14/11
CASH: 2099 Amt: \$40.00
ID: CUSTOM AGRY SYSTEMS INC

REF.: Electrical Letter of Documentation
Kurtis Kramer

Dear Boardmembers:

This letter is to document the employment status and experience for Kurtis Kramer as he applies to the Michigan Electrical Administrative Board for examination approval. Mr. Kramer is applying is sit for the Electrical Journeyman Exam for the state of Michigan. He has been a fulltime employee of Custom Agri Systems from 4/6/2005 to the present. His regular hours worked since then are 11468, this does not include any holiday or overtime hours worked. Mr. Kramer completed the ABC Electrical Apprenticeship program on January 1, 2008 and received his certificate for the NCCER's Electrical program which his card is attached.

While completing the Apprenticeship program he worked as an apprentice with Bartels Electric, Inc., then as a partner of an independent contractor and Custom Agri Systems. Since coming to Custom Agri Systems in April of 2005, he has been working as an electrical journeyman under and with our Master electrician, Richard Storch (lic. # EL-0006068-MB). We have recently added another Master Electrician Carl Heath.

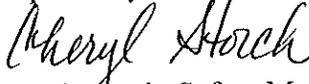
Kurtis has been an excellent leader and journeyman while working for Custom Agri Systems. His duties have included, but are not limited to, ordering and planning jobs, managing electrical crews, layout electrical plans, size equipment and load schedules, program PLC's, run service calls, design and install controls, AC/DC drives and wind turbines, commercial and industrial Agricultural settings and also troubleshooting grain handling equipment and their associated buildings and projects.

We believe Kurtis's training in the apprenticeship program, the experiences he has working with the Master electricians and his current exams he has taken will qualify him as an excellent candidate to sit for the Michigan Electrical Journeyman Exam.


Richard E. Storch, Master Electrician

April 13 - 11
Date

Respectfully Submitted,


Cheryl Storch, Safety Manager

Sworn to and subscribed before me this 13th day of April, 2011 by Richard E Storch



CARRIE L. KUHLMAN
Notary Public, State of Michigan
Commission Expires 12-19-14

Custom Agri Systems, Inc.

CAS Napoleon
255 Co. Rd. 255
Napoleon, OH

CAS Upper
1289 N. Warpole St.
Upper Sandusky, OH

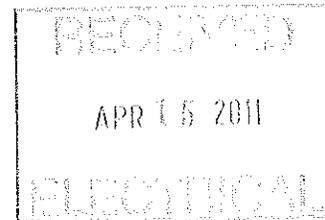
CAS Attica
14-056 US Rt. 224
Attica, OH

CAS Michigan
793 East Copeland Rd
Montgomery, MI

Electrical Administrative Board
DELEG/BCC/Electrical Division
7150 Harris Dr.
Lansing, MI 48909

April 13, 2011

REF.: Electrical Application for Journeyman Exam
Kurtis Kramer



Dear Sirs:

Enclosed is the application and documentation submitted by Kurtis Kramer. He has included his Driver's license, electrical Apprenticeship class information and certificates, current Ohio licenses, employer documentation letter, and several references for the Ohio Electrical requirements to document what his training and apprenticeship requirements are.

Kurtis's training and completion in the apprenticeship program, and the experiences he has working with the Master electricians should qualify him as an excellent candidate to sit for the Michigan Electrical Journeyman Exam.

Enclosed is a check for the application fee of \$100 and should you grant Kurtis the application to test, the fee for the temporary license of \$40.

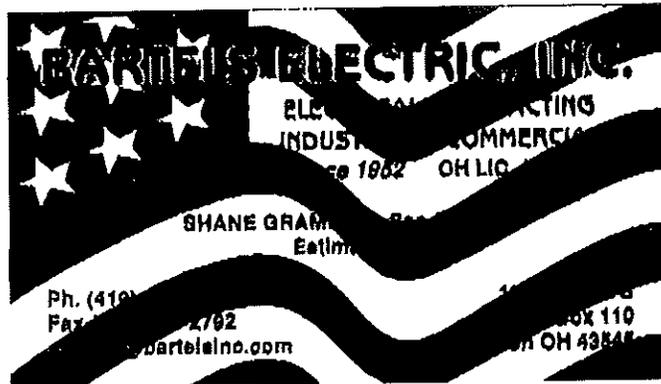
Respectfully Submitted,



Cheryl Storch, Safety Manager

BARTELS ELECTRIC, INC

13-414 COUNTY ROAD S
P.O. BOX 110
NAPOLEON, OHIO 43545
419-599-2992 FAX 419-599-2792



This letter is to certify the employment of Kurtis Kramer with Bartels Electric, Inc. Kurtis was with our Company from 3/13/2000 through 02/27/2004. During his employment, Kurtis documented 4078 hours of On the Job Training (OJT) requirements. During these hours he completed various work tasks including Preliminary work, Residential/Commercial wiring, Industrial Lighting and Service Installation, Specialty wiring and Troubleshooting.

While employed with Bartels Electric, Inc. Kurtis worked under the Journeyman Supervision of John Swearingen, Todd Gramling, and Shane Gramling.

Please call with any questions you may have or if we can be of further assistance.

Sincerely,

Shane Gramling

Secretary/Treasurer
Bartels Electric, Inc

Sworn to and subscribed before me Shane Gramling
this 5th day of May, 2011.

CARRIE L. KUHLMAN
Notary Public, State of Ohio
My Commission Expires 12-19-14

Custom Agri Systems, Inc.

CAS Napoleon
255 Co. Rd. 255
Napoleon, OH

CAS Upper
1289 N. Warpole St.
Upper Sandusky, OH

CAS Attica
14-056 US Rt. 224
Attica, OH

CAS Michigan
793 East Copeland Rd
Montgomery, MI

May 10, 2011

Electrical Administrative Board
DELEG/BCC/Electrical Division
7150 Harris Dr.
Lansing, MI 48909

REF.: Electrical Contractor Information

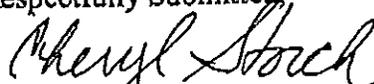
Dear Dan:

Attached is a copy of the Ohio Contractors License for Bartels Electric, Inc. for the apprenticeship time for Steve Gerken and Kurtis Kramer.

The Contractor's License in Ohio is owned by the person to whom it is granted, for the benefit of or in the name of, the company that they are employed by. The company therefore must have a licensed and qualified person (one with appropriate experience, licenses, and who has passed the required exams) in their employment to hold a Contractor's License. The Contractor's License is also industry specific according to which trade the Master contractor is credentialed.

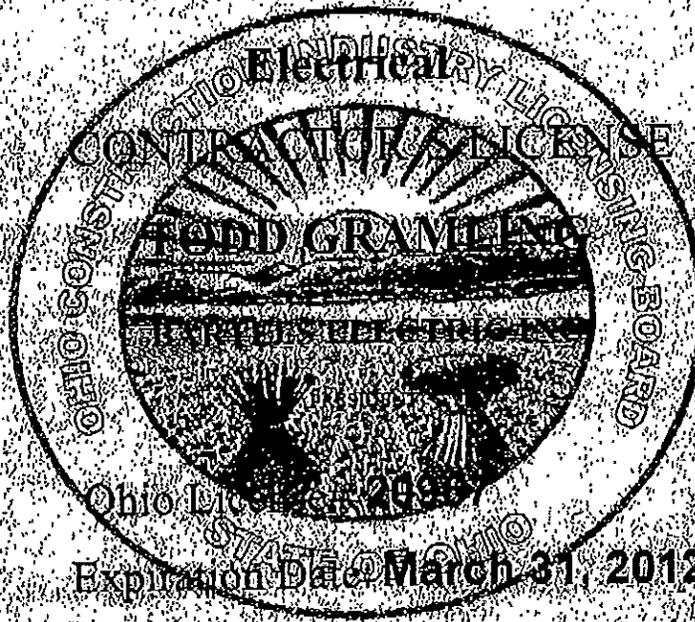
If there is anything further I can assist with, please don't hesitate to contact me.

Respectfully Submitted,


Cheryl Storch, Safety Manager
Custom Agri Systems, Inc.
419-599-5180

John R. Kasich
Governor

David Goodman
Director



Carol A. Ross

Carol A. Ross
Board Secretary

William Koester

William Koester
Administrative Chairperson

3503TS1318926000

USA **Ohio** DRIVER LICENSE

1 **KRAMER**
2 **KURTIS C**

11-29-1980

1 LICENSE NO. **RU456245** 3 BIRTHDATE **11-29-1980** 4 ISSUE DATE **12-02-2009**

5 CLASS **D** 6 EXPIRES **11-29-2013** 7 ENDORS **B** 8 RESTR **B**

15 Sex **M** 16 Ht **6-09** 17 Wt **260**
18 Eyes **BLU** 19 Hair **BRO**

Kramer Kramer



RECEIVED
APR 15 2011
ELECTORAL



Northern Ohio
Chapter

9255 Market Place West, Broadview Heights, Ohio 44147
440-717-0389 Fax 440-717-1636

To Whom It May Concern:

Re: Associated Builders and Contractors
Construction Trades Apprenticeship Training Program
Electrical Trade

The above program is a 4-year program leading to certification as a Journeyperson recognized throughout the United States under the supervision of the Ohio State Apprenticeship Council (OSAC) and the Department of Labor.

The in-class program typically is from September through May, one night a week for 4 hours over 38 weeks. Certification entails both classroom hours and on-the-job (OJT) training hours. Required classroom hours each year are 144 equaling 576 classroom hours after 4 years, the required class hours for certification.

In addition, 8,000 on-the-job (OJT) training hours are required for the certification which amounts to 4 years of fulltime employment with an electrical contractor.

Kurtis Kramer and Steve Gerken both completed these requirements and earned their Journeyperson status as stated above.

Please call me if you have any questions or need further clarification.

Sincerely,

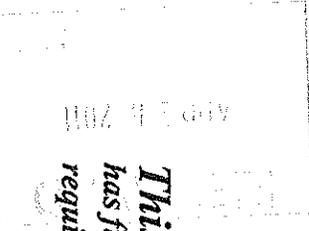
Therese Gallagher

Therese Gallagher
Director of Apprenticeship

STATE OF OHIO

ISSUED BY
THE OHIO STATE APPRENTICESHIP COUNCIL

Certificate of Completion of Apprenticeship



This is to certify that: KURTIS KRAMER
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 journeyperson
ELECTRICIAN

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

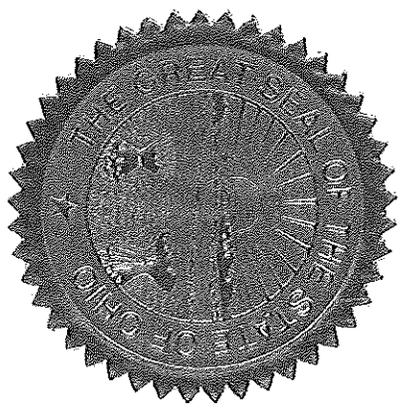
In testimony whereof, the Ohio State Apprenticeship Council of the Ohio Department of Job and Family Services in cooperation with the Bureau of Apprenticeship and Training, U.S. Department of Labor, do affix the Great Seal of the State of Ohio.

Witnessed Over Our Signatures and Seal:
Sponsored by: ABC - Northern Ohio this 1st day of January A.D. 2008
Given at Columbus in the State of Ohio,

Broadview Heights, Ohio

[Signature]
DIRECTOR, OHIO STATE APPRENTICESHIP COUNCIL
CHAIRMAN, OHIO STATE APPRENTICESHIP COUNCIL

TED STRICKLAND
GOVERNOR OF OHIO





CURRICULUM FOR ELECTRICAL LEVEL - 1 For ABC, Inc. - Northern Ohio Chapter, Training Program

OSHA 10hr. Training

Core – 72.5hrs: Covers basic safety, construction math, hand and power tools, blueprint reading, basic rigging, and communication & employability skills.

Orientation to the Electrical Trade – 2.5hrs: Overview of the Electrical Trade.

Electrical Safety – 10hrs: Covers safety rules and regulations for electricians and teaches necessary precautions to take for various electrical hazards found on the job.

Introduction to Electrical Circuits – 7.5hrs: Offers a general introduction to the electrical concepts used in Ohm's law.

Electrical Theory – 7.5hrs: Introduces series, parallel, and series-parallel circuits and covers resistive circuits, Kirchoff's voltage and current laws and circuit analysis.

Introduction to the National Electrical Code (NEC) – 7.5hrs: Provides a navigational road map for using the latest edition of the NEC book.

Device Boxes – 10hrs: Covers the hardware and systems used by an electrician to mount and support boxes, receptacles, and other electrical components.

Hand Bending – 10hrs: Conduit bending and installation and covers techniques for using hand-operated and step conduit benders, as well as cutting, reaming, and threading conduit.

Raceways, Boxes, and Fittings – 20hrs: Introduces the types and applications of raceways, wireways, and ducts, along with stressing the appropriate NEC requirements.

Conductors and Cables – 10hrs: Focuses on types and applications of conductors and covers proper wiring techniques.

Basic Electrical Construction Drawings – 7.5hrs: Focuses on electrical prints, drawings, and symbols and teaches types of information that can be found on schematics, one-lines, and wiring diagrams.

Residential Electrical Services – 15 Hrs.: Covers the electrical devices and wiring techniques common to residential construction and maintenance and allows trainees to practice making service calculations

Electrical Test Equipment – 7.5hrs: Focuses on proper selection, inspection, use & maintenance of common electrical test equipment and allows trainees to practice using many of the instruments while learning the appropriate test procedures and safety rules.

Total Hours Level One: 185



CURRICULUM FOR ELECTRICAL LEVEL - 2

For ABC, Inc. - Northern Ohio Chapter, Training Program

Alternating Current – 17.5hrs: Focuses on forces that are characteristic of alternating-current systems and the application of Ohm's law to AC circuits.

Motors: Theory and Application – 20hrs: Covers AC and DC motor, including the main parts, circuits, and connections.

Electric Lighting – 15hrs: Introduces the basic principles of human vision and the characteristics of light as well as focuses on the handling and installation of the different kinds of lamps and lighting fixtures.

Conduit Bending – 15hrs: Covers all types of bends in all sizes of conduit up to 6" and focuses on mechanical, hydraulic, and electrical benders.

Pull and Junction Boxes– 12.5hrs: Driven by NEC, this explains how to select and size pull boxes, junction boxes and handholes.

Conductor Installations – 10hrs: Covers the transportation, storage, and setup of cable reels; methods of rigging; and procedures for complete cable pulls in raceways and cable trays.

Cable Tray – 7.5hrs: Focuses on NEC installation requirements for cable tray, including modifications and cable installations.

Conductor Terminations and Splices – 7.5hrs: Methods of terminating and splicing conductors of all types and sizes, including preparing and taping conductors.

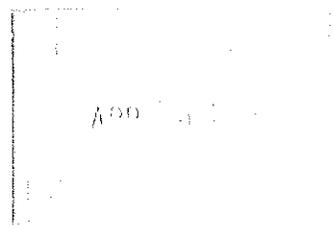
Grounding and Bonding– 15hrs: Focuses on the purpose of grounding and bonding electrical systems. Thoroughly covers NEC regulations.

Circuit Breakers and Fuses – 12.5hrs: Describes fuses and circuit breakers along with their practical applications. Covers short-circuit calculation.

Control Systems and Fundamental Concepts – 12.5hrs: Gives basic descriptions of various types of contactors and relays along with their practical applications.

Total Hours Level 2:

145





Northern Ohio
Chapter

CURRICULUM FOR ELECTRICAL LEVEL - 3 For ABC, Inc. - Northern Ohio Chapter, Training Program

Load Calculations – Branch Feeders and Circuits – 17.5hrs: Explains how to calculate branch circuit feeder loads for various residential and commercial applications.

Conductor Selection and Calculations – 15hrs: Types of conductors used in wiring systems, including insulation, current-carrying capacity, and temperature ratings.

Practical Applications of Lighting – 12.5hrs: Covers specific types of incandescent, fluorescent, and HID lamps, as well as ballasts, troubleshooting, and various types of lighting controls.

Hazardous Locations – 15hrs: Cover the NEC requirements for equipment installed in various hazardous locations.

Overcurrent Protection – 25hrs: Explains how to size and select circuit breakers and fuses for various applications.

Distribution Equipment – 12.5hrs: Explains distribution equipment, including grounding, switchboard and ground fault maintenance, transformers, and electrical drawing identification.

Transformers – 12.5hrs: Discusses transformer types, construction, connections, protection, and grounding along w/capacitors & rectifiers.

Commercial Electrical Services – 10hrs: Covers the components, installation considerations, and NEC requirements for various commercial services.

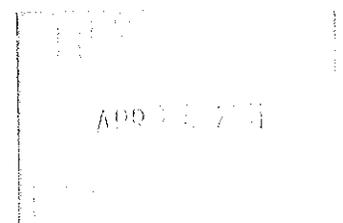
Motor Calculations – 12.5hrs: Cover single and multi-motor calculations to size conductors, overcurrent protection, and overload protection for motor applications.

Voice, Data, and Video – 10hrs: Covers installation, termination, and testing of various voice, data, and video.

Motor Controls – 12.5hrs: Provides information on selecting, sizing, and installing motor controllers. Also covers control circuit pilot devices and basic relay logic.

Total Hours Level 3:

155





CURRICULUM FOR ELECTRICAL LEVEL - 4

For ABC, Inc. - Northern Ohio Chapter, Training Program

Load Calculations – Feeders and Services – 15hrs: Basic calculation procedures and calculations for commercial and residential applications.

Health Care Facilities – 10hrs: Covers the installation of electric circuits in health care facilities, including the requirements for life safety and critical circuits.

Standby and Emergency Systems – 10hrs: Explains NEC installation requirements for electric generators and storage.

Basic Electronic Theory – 10hrs: Explains the function and operation of basic electronic devices, including semiconductors, diodes, rectifiers, and transistors.

Fire Alarm Systems – 15hrs: Covers fire alarm control units, Digital Alarm Communicator Systems (DACS), installation wiring for alarm initiating and notification devices, and alarm system maintenance.

Specialty Transformers – 15hrs: Covers various types of transformers and their applications, and provides information on selecting, sizing, and installing these devices.

Advanced Motor Controls – 20hrs: Explains applications and operation principles of solid-state controls, reduced-voltage starters, and adjustable frequency drives. Also covers basic troubleshooting procedures.

HVAC Controls – 15hrs: Provides a basic overview of HVAC systems and their controls. Also covers basic electrical troubleshooting and NEC requirements.

Heat Tracing and Freeze Protection – 10hrs: Covers various heat tracing systems along with their applications and installation requirements.

Motor Operation and Maintenance – 10hrs: Covers motor cleaning, testing, and preventative maintenance, and describe basic troubleshooting procedures.

Medium Voltage Terminations/Splices – 10hrs: Offers an overview of the NEC and cable manufacturers' requirements for high voltage terminations and splices.

Special Locations - 20hrs: Describes the NEC requirements for selecting and installing equipment, enclosures, and devices in various special locations.

Introductory Skills for the Crew Leader – 16hrs: Along with the principles of project planning, scheduling, estimating, and management, teaches the basic skills required for supervising personnel.

Associated Builders & Contractors, Inc.
 Northern Ohio Chapter
 9255 Market Place West
 Broadview Heights, OH 44147

nocabc@nocabc.com
 www.nocabc.com

Phone: (440) 717-0389

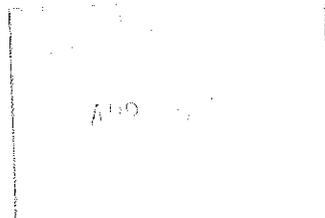
Fax (440) 717-1636

Kurtis Kramer

Custom Agri System
 255 Road R
 Napoleon, OH 43545

GRADE REPORT

CRAFT Electrical			hrs/days	hrs/days				
08E4Z-Electrical 4 Correspondence			Absent	Present	1st Half	2nd	Total	OJT
Instructor: Mark Siracusa		Start Date: 9/10/2007	0/0	/12	94.45		94.45	A
26401-05	Feeders and Services				93.00		93.00	A
26402-05	Practical Applications of Lighting				87.00		87.00	B
26403-05	Standby and Emergency Stysems				93.00		93.00	A
26404-05	Basic Electrical Theory				100.00		100.00	A
26405-05	Fire Alarm Systems				90.00		90.00	A
26406-05	Specially Transformers				100.00		100.00	A
26407-05	Advanced Motor Controls				90.00		90.00	A
26408-05	HVAC Controls				100.00		100.00	A
26409-05	Heat Tracing and Freeze Protection				100.00		100.00	A
26410-05	Motor Maintenance, Part Two				93.00		93.00	A
26411-05	High-Voltage Termination/Splices				93.00		93.00	A
CRAFT			hrs/days	hrs/days				
07E3Z-Electrical 3 Correspondence - Saracusa			Absent	Present	1st Half	2nd	Total	OJT
Instructor: Mark Siracusa		Start Date: 9/11/2006	0/0	/38	91.00		91.00	A
26301-05	Load Calculations				88.00		88.00	B
26302-05	Conductor Selection and Calcullion				93.00		93.00	A
26303-05	Overcurrent Protection				93.00		93.00	A
26304-05	Raceway, Box and Fitting Fill Requirements				80.00		80.00	B
26305-05	Wiring Devices				93.00		93.00	A
26306-05	Distribution Equipment				87.00		87.00	B
26307-05	Distribution Systems Transformers				93.00		93.00	A
26308-05	Lamps, Ballasts and Components				100.00		100.00	A
26309-05	Motor Calculations				100.00		100.00	A
26310-05	Motor Maintenance, Part One				87.00		87.00	B
26311-05	Motor Control				85.00		85.00	B
26312-05	Hazardous Locations				93.00		93.00	A



Student: Kurtis Kramer

Date Printed: 4/12/2011

CRAFT Electrical

04E2F-Electrical 2 - Syracuse

Instructor: Mark Siracusa Start Date: 9/24/2003

		hrs/days	hrs/days	1st Half	2nd	Total	OJT
		Absent	Present				
26201-02	Alternating Currents	4/1	/37	91.69		91.69 A	
26202-02	Motors: Theory & Application			88.00		88.00 B	
26203-02	Grounding			95.00		95.00 A	
26204-02	Conduit Bending			87.00		87.00 B	
26205-02	Boxes & Fittings			100.00		100.00 A	
26206-02	Conductor Installations			93.00		93.00 A	
26207-02	Conductor Terminations & Splices			90.00		90.00 A	
26208-02	Cable Tray			80.00		80.00 B	
26209-02	Installation of Electrical Services			100.00		100.00 A	
26210-02	Curcuit Breakers & Fuses			93.00		93.00 A	
26211-02	Contactors & Relays			93.00		93.00 A	
26212-02	Electric Lighting			100.00		100.00 A	
				80.00		80.00 B	

CRAFT Electrical

03E1Z-Electrical 1 Correspondence

Start Date: 9/9/2002

		hrs/days	hrs/days	1st Half	2nd	Total	OJT
		Absent	Present				
26101-02	Electrical Safety	0/0	/38	97.33		97.33 A	
26102-02	Hand Bending			100.00		100.00 A	
26103-02	Fasteners & Anchors			90.00		90.00 A	
26104-02	Electrical Theory One			100.00		100.00 A	
26105-02	Electrical Theory Two			90.00		90.00 A	
26106-02	Electrical Test Equipment			93.00		93.00 A	
26107-02	Electrical Test Equipment			100.00		100.00 A	
26108-02	Introduction To the National Electrical Code			100.00		100.00 A	
26109-02	Raceways, Boxes & Fittings			100.00		100.00 A	
26110-02	Conductors			100.00		100.00 A	
26111-02	Introduction To Electrical Blueprints			100.00		100.00 A	
26112-02	Wiring: Commerical & Industrial			100.00		100.00 A	
	Wiring: Residential			95.00		95.00 A	





NATIONAL CENTER
FOR CONSTRUCTION
EDUCATION AND RESEARCH

Kurtis Kramer

5388147



ADD 3/1/01

Iowa Electrical Examining Board

RICHARD STORCH JR
Masters Class B Electrician

E1-0006008-MB

Expiration
12/31/2013

The Electrician License issued to is
recognized by the Iowa Electrical Examining Board
to perform electrical work at the
level of a Master Electrician. The license is recognized
for a period of 12 months.

Robert M. ...

Joseph S. ...

Board Chairperson Executive Secretary





CONTRACTOR REGISTRATION CERTIFICATE

STATE OF IOWA

**IOWA WORKFORCE DEVELOPMENT
DIVISION OF LABOR SERVICES
CONTRACTOR REGISTRATION**

1000 East Grand Ave.
Des Moines, IA 50319-0209
Phone (515) 242 - 6871

DATE ISSUED: 10/29/2010

DATE EXPIRES: 10/29/2011

REGISTRATION NUMBER: C111803

**CUSTOM DRYER SERVICE LLC
255 COUNTY ROAD R
NAPOLEON, OH 43545**

A handwritten signature in black ink that reads "David Neil". The signature is written in a cursive style with a large, sweeping "D" and "N".

David Neil, Commissioner

Your certificate will be enforced for 1 year if you are in compliance with contractor registration, unemployment insurance, and worker's compensation regulations. Falsifying any records may result in revocation of your certificate, \$500 civil penalty, and criminal prosecution.

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.

Section History: Recent Form

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.

Section History: Recent Form

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.

Section History: Recent Form

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, 1990, 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.

Section History: Recent Form

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 103.10, and paying the applicable license fee specified in section 103.19 for a class A master electrician license or class B master electrician license.

Section History: Recent Form

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.

Section History: Recent Form

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 bureau of apprenticeship and training 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.

Section History: Recent Form

2007 Acts, ch 197, §22, 50; 2008 Acts, ch 1077, §2, 3; 2008 Acts, ch 1092, §16--18, 32
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 by the board, shall be issued to applicants who meet qualifications determined by the board, and shall be valid for the performance of residential installations, subject to limitations or restrictions established by the board.

b. A person who, on or after July 1, 2009, holds a special electrician license authorizing residential electrical installation, granted pursuant to section 103.13, shall be eligible for conversion of that special license to either a residential electrician license or a residential master electrician license, if established by the board, in accordance with requirements and procedures established by the board.

2. A person licensed by the board as a class A journeyman electrician or a class B journeyman electrician, or as a class A master electrician or a class B master electrician, shall not be required to hold a residential electrician or residential master electrician license to perform any type of residential installation authorized for a person licensed pursuant to this section.

3. 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.

Section History: Recent Form

IAC

Ch 502, p.1

661—502.2 (103) License requirements.

502.2(1) An electrical contractor license may be issued to a person who submits to the board the required application with the applicable fee, who holds or employs a person who holds an active master electrician license, who is registered as a contractor with the labor services division of Iowa workforce development, and who is not disqualified pursuant to rule 661—502.4(103): An electrical contractor license issued to a person who holds a class B master electrician license is subject to the same restriction of use as is the class B master electrician license.

502.2(2) A class A master electrician license may be issued to a person who submits to the board a completed application with the applicable fee, who is not disqualified from holding a license pursuant to rule 661—502.4(103), and who meets one of the following requirements:

a. Has completed one year of experience as a licensed journeyman electrician, and has passed a supervised written examination for master electrician approved by the board with a score of 75 or higher; or

b. As of December 31, 2007, held a current valid license as a master electrician issued by a political subdivision in Iowa, the issuance of which required passing a supervised written examination approved by the board, and one year of experience as a journeyman electrician; or

c. Holds a current class B master electrician license and has passed a supervised written examination for master electrician approved by the board with a score of 75 or higher.

502.2(3) A class B master electrician license may be issued to a person who submits to the board a completed application with the applicable fee, who is not disqualified from holding a license pursuant to rule 661—502.4(103), who presents credible evidence of having worked for a total of eight years (16,000 hours of cumulative experience) as a master electrician since 1989, and whose experience as a master electrician began on or before December 31, 1989.

502.2(4) A class A journeyman electrician license may be issued to a person who submits to the board a completed application with the applicable fee, who is not disqualified from holding a license pursuant to rule 661—502.4(103), and who meets one of the following requirements:

a. Has successfully completed an apprenticeship program registered by the Bureau of Apprenticeship and Training of the United States Department of Labor, has passed a supervised written examination for journeyman electrician approved by the board with a score of 75 or higher, and has completed four years of experience as an apprentice electrician; or

b. As of December 31, 2007, held a current valid license as a journeyman electrician issued by a political subdivision in Iowa, the issuance of which required passing a supervised written examination approved by the board, and has completed a registered apprenticeship program and four years of experience as an apprentice electrician; or

c. Holds a current class B journeyman electrician license and has passed a supervised written examination for journeyman electrician approved by the board with a score of 75 or higher.

502.2(5) A class B journeyman electrician license may be issued to a person who submits to the board a completed application with the applicable fee, who is not disqualified from holding a license pursuant to rule 661—502.4(103), who presents credible evidence of having worked for a total of eight years (16,000 hours of cumulative experience) as a journeyman or master electrician since 1989, and whose experience as a journeyman or master electrician began on or before December 31, 1990.

502.2(6) A special electrician license may be issued to a person who submits to the board a completed application with the applicable fee, who is not disqualified from holding a license pursuant to rule 661—502.4(103), and who meets the qualifications for any endorsement entered on the license. Each special electrician license shall carry one or more endorsements as specified in paragraphs "a" through "d."

a. Endorsement 1, "Irrigation System Wiring," shall be included on a special electrician license if the licensee requests it and has passed a supervised examination approved by the board or has completed two years, or 4,000 hours, of documented experience in the wiring of irrigation systems.

b. Endorsement 2, "Disconnecting and Reconnecting Existing Air Conditioning and Refrigeration Systems," shall be included on a special electrician license if the licensee requests it and has passed a

Ch 502, p.2

IAC

supervised examination approved by the board or has completed two years of documented experience in the disconnecting and reconnecting of existing air conditioning and refrigeration systems.

c. Endorsement 3, "Sign Installation," shall be included on a special electrician license if the licensee requests that it be included. This endorsement does not authorize a licensee to connect power to a sign that has a voltage greater than 220V and an ampere rating greater than 20 amps. Initial installation or upgrading of the branch circuits supplying power to the sign shall be completed by a licensed master electrician or by a licensed journeyman electrician under the supervision of a master electrician.

d. Endorsement 4, "Residential Electrician," shall be included on a special electrician license if the licensee requests it and has passed a supervised written examination approved by the board or has completed four years of documented experience performing residential electrical work. A political subdivision may, by enactment of an ordinance filed with the board prior to its effective date, require that a special electrician performing work authorized by this endorsement be supervised by a master electrician.

502.2(7) An apprentice electrician license may be issued to a person who submits a completed application to the board with the applicable fee, who is not disqualified pursuant to rule 661—502.4(103) and who is participating in an apprenticeship training program that is registered with the Bureau of Apprenticeship and Training of the United States Department of Labor. A person may hold an apprentice electrician license for no more than six years from the original date on which an apprentice electrician license is granted, except that a person may apply to the board for an exception to this limitation based upon a documented hardship. "Documented hardship" includes, but is not limited to, an interruption in service as an apprentice electrician for active military duty or for an extended illness.

502.2(8) A license as an unclassified person may be issued to a person who submits a completed application to the board with the applicable fee, who is not disqualified pursuant to rule 661—502.4(103) and who is employed by a licensed electrical contractor.

502.2(9) In lieu of renewal of the active master electrician license, an inactive master electrician license may be issued to a holder of a master electrician license whose license is due for renewal and who requests placement in inactive status. A holder of an inactive license shall maintain all requirements which would apply for an active master electrician license, except for payment of the fee required for an active license, during the term of the inactive license. If the license holder fails to meet any such requirement during the term of the inactive license, the license holder shall not be entitled to reinstatement of an active license. If the license holder continues to meet all such requirements while holding an inactive license, the license holder may obtain an active master electrician license by surrendering the inactive master license, filing an application for reinstatement, and paying the applicable license fee. The holder of an inactive license who seeks reinstatement of an active license shall not receive any refund of the fee paid for the inactive license. A person who holds an inactive license may not perform work which requires the person to be a holder of that license, but may perform work authorized by any active license issued by the board which the person holds.

[ARC 8396B, IAB 12/16/09, effective 2/1/10]



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
LANSING

STEVEN H. HILFINGER
DIRECTOR

May 26, 2011

E-11- 13

TO: Members of the State Electrical Administrative Board
FROM: Dan O'Donnell, Chief, Electrical Division
SUBJECT: Appeal by Steven Gerken to take the journeyman electrician exam

APPLICANT REPRESENTATIVE:

Steven Gerken

PROJECT:

N/A

AUTHORITY:

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

The Electrical Administrative Board General Rules

REQUEST:

Requesting an appeal to sit for the journeyman electrician examination.

APPLICABLE RULE:

PA 217 of 1956, 338.883a Sec. 3a. (c), 338.883d Sec. 3d. (1), (a), (b), (c), (d), 338.883e Sec. 3e. (1), 338.885 Sec. 5. (1), 338.887 Sec 7 (2), and Electrical Administrative Board General Rules R338.1005a Rule 5a. (1).

FINDINGS:

The Electrical Division received an application from Mr. Gerken to sit for the journeyman electrician examination on April 15th, 2011. Additional documentation submitted by Mr. Gerken with his application included a certificate of completion of an electrical apprenticeship issued by the Ohio State Apprenticeship Council sponsored by Associated Builders and Contractors Northern Ohio Chapter in conjunction with the

Electrical Administrative Board

May 26, 2011

Page 2

National Center for Construction Education and Research (NCCER). Mr. Gerken also has a current Electrical Contractors License issued by the State of Ohio. The requirements for licensure as an electrical contractor in the State of Ohio supplied by Mr. Gerken with his application indicates that one of the ways an individual may qualify to sit for the electrical contractors exam is by having been a tradesperson in the type of licensed trade for which the application is filed for not less than five (5) years immediately prior to the date the application is filed. The requirements do not mention under whose supervision that experience is gained or any specific amount of hours that must be attained during the 5 year period preceding the application for examination. Mr. Gerken did supply a copy of a Master Class B Electrician License issued by the State of Iowa to Richard Storch Jr. The information Mr. Gerken provided regarding the State of Iowa Class B master electrician license held by Mr. Storch indicates that a Class B master electrician shall not be authorized to plan, layout, or supervise the installation of electrical wiring. Mr. Storch signed a letter as the master electrician that supervised and worked with Mr. Gerken on projects for Custom Agri Systems Inc. which has operations in both Ohio and Michigan. Mr. Gerken's documentation indicates that he has been an employee of Custom Agri Systems Inc. from 4/6/2005 and is presently employed there. Mr. Gerken also submitted documentation that he worked for Bartels Electric Inc. located in Napoleon Ohio, from 6/29/1999 until 2/14/2004. In part Michigan statute requires that an individual must have not less than 8000 hours of experience over a period of not less than 4 years under the direct supervision of a person licensed under the act to qualify to sit for the journeyman electrician examination

RECOMMENDATION:

Staff recommends that the board consider the experience that Mr. Gerken has attained along with his completion of an electrical apprenticeship training program to determine whether that experience and training is equivalent to that required by the State of Michigan.

Custom Agri Systems, Inc.

CAS Napoleon
255 Co. Rd. 255
Napoleon, OH

CAS Upper
1289 N. Warpole St.
Upper Sandusky, OH

CAS Attica
14-056 US Rt. 224
Attica, OH

CAS Michigan
793 East Copeland Rd
Montgomery, MI

Electrical Administrative Board
DELEG/BCC/Electrical Division
7150 Harris Dr.
Lansing, MI 48909

April 25, 2011

REF: Appeal Journeyman Exam

Dear Board:

I am writing to appeal the decision of the Electrical Board for the Journeyman Electrical exam for the state of Michigan. I am asking to meet with the Board on May 26th to appeal my case.

Your reconsideration in this matter is greatly appreciated.

Sincerely,



Steven Gerken

Application for Journeyman Electrician Examination
 Michigan Department of Energy, Labor & Economic Growth
 Bureau of Construction Codes / Electrical Division
 P.O. Box 30255, Lansing, MI 48909
 517-241-9320
 www.michigan.gov/bcc

APR 15 2011

Agency Use Only

6336160

Examination Fee: \$100.00 (nonrefundable)

Authority: 1956 PA 217 Completion: Mandatory Penalty: Examination will not be given	DELEG is an equal opportunity employer/program. Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.
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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.
- Provide **proof of participation in an approved electrical training program** (see back for additional information).
- 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) <i>Gerken, Steven</i>	APPRENTICE REGISTRATION NUMBER	DATE OF BIRTH	LAST 4 DIGITS OF SOCIAL SECURITY NUMBER* XXX-XX-
T	C	TOWNSH	
C	STATE <i>OH</i>	TELEPHONE NUMBER (Include Area Code)	

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>May 2011</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.

*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 <i>Custom Agri System</i>		DATES OF EMPLOYMENT (MM/DD/YY) BEGINNING: <i>4/6/2005</i> ENDING: <i>Current</i>	
ADDRESS <i>255 Co. Rd. R Corp. office</i> <i>193 E. Copeland Rd., Branch office</i>		CITY <i>Napoleon</i>	STATE <i>OH</i> <i>MI</i>
		ZIP CODE <i>43545</i> <i>44255</i>	
TYPE OF WORK PERFORMED <i>estimating, order + plan jobs, managing electrical crews, layout elec. work, size equip. + load schedules, program PLC's, run service calls, design + install controls, AC + DC Drives, wind turbines, Commercial + Industrial Agricultural applications, troubleshoot + service</i>			
NAME OF EMPLOYER <i>S + K Power, LLC</i>		DATES OF EMPLOYMENT (MM/DD/YY) BEGINNING: <i>2/04</i> ENDING: <i>4/05</i>	
ADDRESS <i>755 W. Clinton St.</i>		CITY <i>Napoleon</i>	STATE <i>OH</i>
		ZIP CODE <i>43545</i>	
TYPE OF WORK PERFORMED <i>Manage Electrical operations, estimating, design + install wiring in residential + commercial</i>			

See Next Page

Note: If you have completed an electrical training program from an approved Related Technical Instruction (RTI) provider submit a copy of your transcript or USDOLOA certification.

If you are currently participating in an electrical training program, the Approved Related Technical Instruction Provider must complete the following section.

Certification and Signature of Approved Related Technical Instruction Provider

N/A

I certify that _____ is currently participating in an electrical training program
(Printed Name of Applicant)

approved by the Electrical Administrative Board and the USDOLOA.

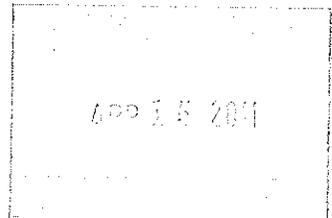
NAME OF RTI PROVIDER _____

SIGNATURE OF AUTHORIZED REPRESENTATIVE FROM RTI PROVIDER	TELEPHONE NUMBER OF AUTHORIZED REPRESENTATIVE (Include Area Code)	DATE
--	--	------

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 falsification of any statement is cause for rejection of this application or revocation of license, if issued.

APPLICANT'S SIGNATURE <i>[Signature]</i>	DATE <i>4-12-11</i>
---	------------------------



Agency Use Only

Approved for Exam Yes No

Date of Exam	Score	Absent	Date of Exam	Score	Absent

Validation Area

Tran Info: 103 16794126-1 04/14/11
 Chk#: 2098 Amt: \$100.00
 ID: CUSTOM AGRY SYSTEMS INC

Date Approved by EAB _____

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

NAME OF EMPLOYER <i>Bartels Electric Inc.</i>		DATES OF EMPLOYMENT (MM/DD/YY) BEGINNING: <i>6/99</i> ENDING: <i>2/04</i>	
ADDRESS <i>13-394 Co. Rd. 5</i>	CITY <i>Napoleon</i>	STATE <i>OH</i>	ZIP CODE <i>43545</i>
TYPE OF WORK PERFORMED <i>Estimating, install wiring in commercial + industrial projects, working in banks, churches, restaurants, factories + schools</i>			
NAME OF EMPLOYER		DATES OF EMPLOYMENT (MM/DD/YY)	
ADDRESS	CITY	STATE	ZIP CODE
TYPE OF WORK PERFORMED			

Note: If you have completed an electrical training program from an approved Related Technical Instruction (RTI) provider submit a copy of your transcript or USDOLOA certification.

If you are currently participating in an electrical training program, the Approved Related Technical Instruction Provider must complete the following section.

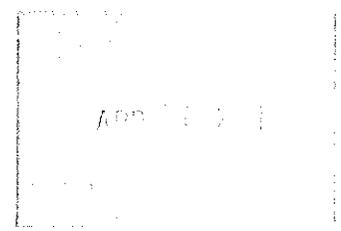
Certification and Signature of Approved Related Technical Instruction Provider

N/A

I certify that _____ is currently participating in an electrical training program (Printed Name of Applicant)		
approved by the Electrical Administrative Board and the USDOLOA.		
NAME OF RTI PROVIDER		
SIGNATURE OF AUTHORIZED REPRESENTATIVE FROM RTI PROVIDER	TELEPHONE NUMBER OF AUTHORIZED REPRESENTATIVE (Include Area Code)	DATE

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 falsification of any statement is cause for rejection of this application or revocation of license, if issued.	
APPLICANT'S SIGNATURE	DATE



Agency Use Only

Approved for Exam Yes No

Validation Area

Date of Exam	Score	Absent	Date of Exam	Score	Absent

Date Approved by EAB _____

Custom Agri Systems, Inc.

CAS Napoleon
255 Co. Rd. 255
Napoleon, OH

CAS Upper
1289 N. Warpole St.
Upper Sandusky, OH

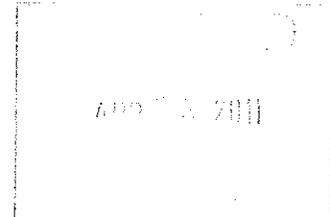
CAS Attica
14-056 US Rt. 224
Attica, OH

CAS Michigan
793 East Copeland Rd
Montgomery, MI

Electrical Administrative Board
DELEG/BCC/Electrical Division
7150 Harris Dr.
Lansing, MI 48909

April 13, 2011

REF.: Electrical Application for Journeyman Exam
Steven Gerken



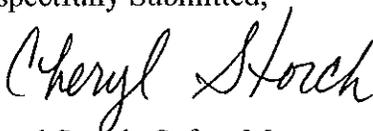
Dear Sirs:

Enclosed is the application and documentation submitted by Steven Gerken. He has included his Driver's license, electrical Apprenticeship class information and certificates, current Ohio licenses, employer documentation letter, and several references for the Ohio Electrical requirements to document what his training and apprenticeship requirements are.

Steven's training and completion in the apprenticeship program, and the experiences he has working with the Master electricians should qualify him as an excellent candidate to sit for the Michigan Electrical Journeyman Exam.

Enclosed is a check for the application fee of \$100 and should you grant Steve the application to test, the fee for the temporary license of \$40.

Respectfully Submitted,



Cheryl Storch, Safety Manager

Custom Agri Systems, Inc.

CAS Napoleon
255 Co. Rd. 255
Napoleon, OH

CAS Upper
1289 N. Warpole St.
Upper Sandusky, OH

CAS Attica
14-056 US Rt. 224
Attica, OH

CAS Michigan
793 East Copeland Rd
Montgomery, MI

Electrical Administrative Board
DELEG/BCC/Electrical Division
7150 Harris Dr.
Lansing, MI 48909

APR 12 2011

April 12, 2011

REF.: Electrical Letter of Documentation
Steven Gerken

Trans Info: 117 16794126-2 04/14/11
CHK#: 2090 Amt: \$40.00
ID: CUSTOM AGRY SYSTEMS INC

Dear Boardmembers:

This letter is to document the employment status and experience for Steven Gerken as he applies to the Michigan Electrical Administrative Board for examination approval. Mr. Gerken is applying is sit for the Electrical Journeyman Exam for the state of Michigan. He has been a fulltime employee of Custom Agri Systems from 4/6/2005 to the present. His regular hours worked since then are 11730, this does not include any holiday or overtime hours worked. Mr. Gerken completed the ABC Electrical Apprenticeship program on April 30, 2003 and received his certificate for the NCCER's Electrical program on June 26, 2003.

After completing the Apprenticeship program he worked as a journeyman with Bartels Electric, Inc. He then applied for and passed the Ohio Electrical Contractor and the Ohio Business and Law exams. He received his license in October of 2004. Since coming to Custom Agri Systems in April of 2005, he has been working as a journeyman and contractor under and with our Master electrician, Richard Storch (lic. # EL-0006068-MB). We have recently added another Master Electrician Carl Heath.

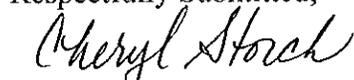
Steven has been an excellent leader and journeyman while working for Custom Agri Systems. His duties have included, but are not limited to, project estimating, ordering and planning jobs, managing electrical crews, layout electrical plans, size equipment and load schedules, program PLC's, run service calls, design and install controls, AC/DC drives and wind turbines, commercial and industrial Agricultural settings and also troubleshooting grain handling equipment and associated buildings and projects.

We believe Steven's training in the apprenticeship program, the experiences he has working with the Master electricians and his current exams he has taken will qualify him as an excellent candidate for the Michigan Electrical Journeyman Exam.

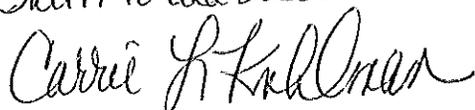

Richard E. Storch, Master Electrician

April 13 - 11
Date

Respectfully Submitted,

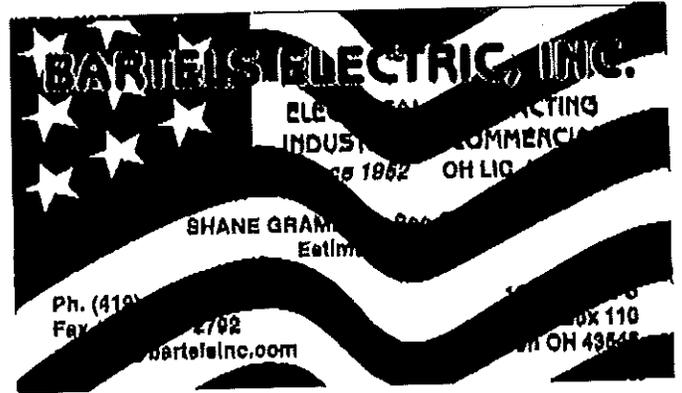

Cheryl Storch, Safety Manager

Sworn to and subscribed before me this 13th day of April, 2011 by Richard E. Storch.



CARRIE L. KUHLMAN
Notary Public, State of Ohio
Commission Expires 12-19-14

BARTELS ELECTRIC, INC
13-414 COUNTY ROAD S
P.O. BOX 110
NAPOLEON, OHIO 43545
419-599-2992 FAX 419-599-2792



This letter is to certify the employment of Steve Gerken with Bartels Electric, Inc. Steve was with our Company from 06/29/1999 through 02/14/2004. During his employment, Steve exceeded the 8000 hours of On the Job Training (OJT) requirements. During these hours he completed various work tasks including Preliminary work, Residential/Commercial wiring, Industrial Lighting and Service Installation, Specialty wiring and Troubleshooting.

While employed with Bartels Electric, Inc. Steve worked under the Journeyman Supervision of John Swearingen, Todd Gramling, and Shane Gramling.

Please call with any questions you may have or if we can be of further assistance.

Sincerely,

Shane Gramling

Secretary/Treasurer
Bartels Electric, Inc

Sworn to and subscribed before me Shane Gramling
this 5th day of May, 2011.

CARREL KUHLMAN
Notary Public, State of Ohio
12-19-14

Custom Agri Systems, Inc.

CAS Napoleon
255 Co. Rd. 255
Napoleon, OH

CAS Upper
1289 N. Warpole St.
Upper Sandusky, OH

CAS Attica
14-056 US Rt. 224
Attica, OH

CAS Michigan
793 East Copeland Rd
Montgomery, MI

May 10, 2011

Electrical Administrative Board
DELEG/BCC/Electrical Division
7150 Harris Dr.
Lansing, MI 48909

REF.: Electrical Contractor Information

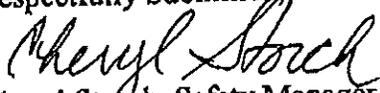
Dear Dan:

Attached is a copy of the Ohio Contractors License for Bartels Electric, Inc. for the apprenticeship time for Steve Gerken and Kurtis Kramer.

The Contractor's License in Ohio is owned by the person to whom it is granted, for the benefit of or in the name of, the company that they are employed by. The company therefore must have a licensed and qualified person (one with appropriate experience, licenses, and who has passed the required exams) in their employment to hold a Contractor's License. The Contractor's License is also industry specific according to which trade the Master contractor is credentialed.

If there is anything further I can assist with, please don't hesitate to contact me.

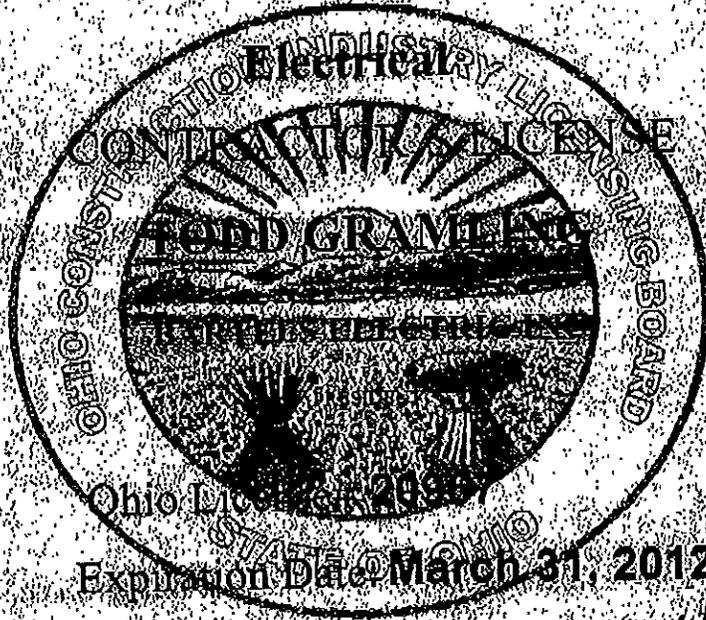
Respectfully Submitted,



Cheryl Storch, Safety Manager
Custom Agri Systems, Inc.
419-599-5180

John R. Kasich
Governor

David Goodman
Director



Carol A. Ross

Carol A. Ross
Board Secretary

William Koester

William Koester
Administrative Chairperson

3500751320300000

OHIO DRIVER LICENSE

USA

GERKEN
STEVEN

1

1 LICENSE NO. 3 SAUHQRTB
RN833942

2 ISSUE DATE 12-11-2009

3 CLASS 02/PIPER 13 ENDORS 14 RESSTR

D 09-14-2013

15 Sex: M 16 HI: 5-08 17 Wt: 170

18/Est: BLU 19 Hair: BRN

20

09 MAR 1980

APR 6 2011



Department of Commerce

Division of Industrial Compliance
& Labor

John Kasich, Governor
David Goodman, Director

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) not have been convicted of or plead guilty to a misdemeanor involving moral turpitude or of any felony; 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.** Be specific in nature of duties. Attach **copies** of documentation that would support your credentials such as: any local licenses or registrations, permits obtained, union card, pay stubs, W-2's, signed contracts, invoices, and letters of recommendation or verification of employment on company letterhead. You will need to have the application 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 BACKGROUND CHECK PRIOR TO SITTING FOR THE EXAMINATION.** Approval is good for one year.

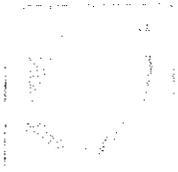
Approved applicants will be provided with a Candidate Information Bulletin which contains detailed instructions on how to schedule to take the exam. All licensure exams are computer based testing by appointment at sites throughout Ohio & the U.S. Individuals who take the examination will receive a notice 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 (with the actual policy number listed), and 4) Declaration Regarding Material Assistance Form (DMA).** Submit the required information to the Ohio Construction Industry Licensing Board (OCILB), 6606 Tussing Road, P.O. Box 4009, Reynoldsburg, OH 43068-9009.

DIC 3526 01-10-2011

Ohio Construction Industry Licensing Board
6606 Tussing Road
PO Box 4009
Reynoldsburg, OH 43068-9009 U.S.A.

William Koester, Administrative Section Chairman
An Equal Opportunity Employer and Service Provider

614 | 644 3493
Fax 614 | 728 1200
TTY/TDD 800 | 750 0750
www.com.ohio.gov



**Need your
Contractor's License?**

**AMERICAN
CONTRACTORS**

Ohio

You must hold a state license do Electrical, HVAC, Refrigeration, Plumbing, or Hydronics work in Ohio. General construction contractors may need to be licensed at the local level. Check with the city or county for licensing information and requirements.

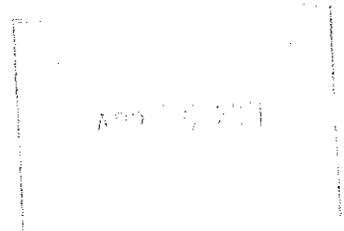
 To find out if a tradesman holds a license in Ohio, click on <http://elicense1-lookup.com.ohio.gov/SearchCriteria.asp>.

- [Asbestos Abatement License and Certificates](#)
- [Department of Transportation \(DOT\)](#)
- [Out-of-State Corporations](#)

To apply for a plumbing, electrical, HVAC, hydronics, or refrigeration license, you need at least five years of experience in the field. You also have to be a U.S. citizen and have never been convicted of a felony. For information, contact:



Ohio Department of Commerce
Ohio Construction Industry Examining Board
6606 Tussing Road
P.O. Box 4009
Reynoldsburg, OH 43068-9009
(614) 644-3493
Fax: (614) 728-1200
<http://www.com.state.oh.us/>



Ohio has a reciprocal agreement with Kentucky and West Virginia for electrical only.

The Board will review your application and if you're eligible they'll send you information on the exam they require. You must have 5 years experience to qualify to take the exam. The exam has two parts -- one on business and law and the other on HVAC, electrical, plumbing, refrigeration, or hydronics. Everyone must take the business and law part.

For more information on the exams or practice exams, contact:



International Code Council
900 Montclair Road
Birmingham, AL 35213
(877) STD-EXAM
<http://www.iccsafe.org>

Exam details:

Business and Law Exam, 1-1/2 hours, open book

Subject

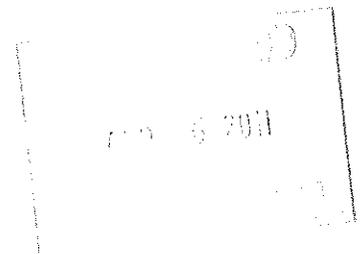
Business structure, practices and licensing

Questions

3

Ohio

Estimating and bidding	4
Contracts and acceptance	2
Project management and planning	4
Financing and record keeping	4
Insurance and bonding	3
Labor laws and personnel policies	3
Tax, lien laws and dispute resolution	4
Safety and OSHA compliance	3
Electrical Contractor, 5 hours, open book	
Service, transformers and equipment	20
Wiring methods and installation	18
Cabinets, panelboards, switchboards, boxes, conduit bodies	5
Conductors	15
Control devices	6
Motors and generators	11
Utilization equipment and devices	8
Special occupancies and uses	11
Miscellaneous	6
Plumbing Contractor, 4 hours, open book	
Fixtures	7
Materials and fundamentals	10
Traps, cleanouts and interceptors	10
Special requirements	3
Drainage requirements	19
Vents	17
Water distribution	11
Plan analysis	23
HVAC, 4 hours, open book	
Theory, terminology and general requirements	15
Heating systems	20
Vents and connectors	10
Refrigeration	15
Piping systems	5
Air ducts systems	10
Ventilation systems	10
Operation procedures, maintenance and repairs	10
Special equipment and appliances	5
Refrigeration Contractor, 3 hours, open book	
Theory, terminology and general requirements	9
Compressors and types of systems	6
Evaporators, condensers and cooling towers	6
Piping inspection and field testing	6
Air duct and insulation	6
Electrical and controls	12
Refrigerants	6
Operation procedures	6



Maintenance and repairs	6
Hydronics Contractor, 2-1/2 hours, open book	
Water supply treatment and feed	5
Fuels and firing methods	4
General code applications and venting	4
Piping, pumps and valves	11
Controls and control systems	9
Maintenance and repairs	3
Tests and inspections	4

License Renewal

Licenses are renewed each year.

It will cost \$60 to renew and you must show proof of insurance (\$500,000 liability minimum) and have completed continued education requirements. Continued education requirements:

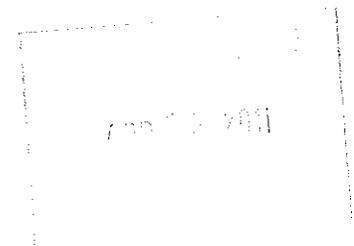
Plumbing, Hydronics, HVAC, Refridgeration - 10 hours total per year

Electrical - 10 hours total. 5 of the 10 must be in code.

If you are a multiple license holder, you are still only required to complete 10 hours for CE total.

Contractor's qualification certification exam fees: It'll cost you \$25 nonrefundable to file an application to take an exam. The exams cost \$70 for paper/pencil exam or \$120 for electronic each. Once you pass both parts of the exam, you send a copy of your scores, proof of liability insurance and \$25 to the Board and they'll issue your certificate. It's good for at least 12 months.

Back to the top ▲



License Qualification Process

The Ohio Construction Industry Licensing Board (OCILB) issues State Licenses to Commercial Contractors for the following trades: Electrical, HVAC, Hydronics, Plumbing, and Refrigeration. To receive a state license, an applicant must meet the following requirements:

Be at least 18 years of age.

Be a United States citizen or a legal alien-must provide proof of being a legal alien.

Either have been a tradesperson in the type of licensed trade for which the application is filed for not less than five (5) years immediately prior to the date the application is filed, currently be a registered engineer in this state with three (3) 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.

Not have been convicted of or plead guilty to a misdemeanor involving moral turpitude or of any felony.

Pass the examination in the trade.

Carry minimum \$500,000 contractor liability coverage.

Pay the applicable fees.

Be advised: NEW

Once you have been approved by the Board, you are required to complete a State and Federal Background Check prior to sitting for the examination.

Results must be submitted from the background agency directly to:

Ohio Department of Commerce
Division of Industrial Compliance and Labor
Ohio Construction Industry Licensing Board (OCILB)
6606 Tussing Road
P.O. Box 4009
Reynoldsburg, OH 43068-9009
Phone (614) 644-3493





Associated Builders
and Contractors, Inc.

Northern Ohio
Chapter

9255 Market Place West, Broadview Heights, Ohio 44147
440-717-0389 Fax 440-717-1636

To Whom It May Concern:

Re: Associated Builders and Contractors
Construction Trades Apprenticeship Training Program
Electrical Trade

The above program is a 4-year program leading to certification as a Journeyman recognized throughout the United States under the supervision of the Ohio State Apprenticeship Council (OSAC) and the Department of Labor.

The in-class program typically is from September through May, one night a week for 4 hours over 38 weeks. Certification entails both classroom hours and on-the-job (OJT) training hours. Required classroom hours each year are 144 equaling 576 classroom hours after 4 years, the required class hours for certification.

In addition, 8,000 on-the-job (OJT) training hours are required for the certification which amounts to 4 years of fulltime employment with an electrical contractor.

Kurtis Kramer and Steve Gerken both completed these requirements and earned their Journeyman status as stated above.

Please call me if you have any questions or need further clarification.

Sincerely,

Therese Gallagher

Therese Gallagher
Director of Apprenticeship

STATE OF OHIO

Certificate of Completion of Apprenticeship

ISSUED BY
THE OHIO STATE APPRENTICESHIP COUNCIL

This is to certify that: STEVE GERKEN
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:

ASSOCIATED BUILDERS &
CONTRACTORS, INC.
9255 Market Place West
Broadview Hts., Ohio 44117

Given at Columbus in the State of Ohio,

this 30th day of April A.D. 2003



Jean D. Sickler
DIRECTOR, OHIO STATE APPRENTICESHIP COUNCIL

Lawrence Davis
CHAIRMAN, OHIO STATE APPRENTICESHIP COUNCIL

BOB TAFT
GOVERNOR OF OHIO



**THE NORTHERN OHIO CHAPTER OF
ASSOCIATED BUILDERS & CONTRACTORS, INC.**

Hereby certify that

Steve Genken

Has successfully completed the requirements for the

Electrical Program

*in the NCCER's standardized craft training curriculum this
Twenty-Sixth day of June, 2003*

Amy Goodwin

Amy Goodwin,
Apprenticeship Director

Gene Fisetell

Gene Fisetell,
Apprenticeship Committee Chairperson





Northern Ohio
Chapter

CURRICULUM FOR ELECTRICAL LEVEL - 1 For ABC, Inc. - Northern Ohio Chapter, Training Program

OSHA 10hr. Training

Core – 72.5hrs: Covers basic safety, construction math, hand and power tools, blueprint reading, basic rigging, and communication & employability skills.

Orientation to the Electrical Trade – 2.5hrs: Overview of the Electrical Trade.

Electrical Safety – 10hrs: Covers safety rules and regulations for electricians and teaches necessary precautions to take for various electrical hazards found on the job.

Introduction to Electrical Circuits – 7.5hrs: Offers a general introduction to the electrical concepts used in Ohm's law.

Electrical Theory – 7.5hrs: Introduces series, parallel, and series-parallel circuits and covers resistive circuits, Kirchoff's voltage and current laws and circuit analysis.

Introduction to the National Electrical Code (NEC) – 7.5hrs: Provides a navigational road map for using the latest edition of the NEC book.

Device Boxes – 10hrs: Covers the hardware and systems used by an electrician to mount and support boxes, receptacles, and other electrical components.

Hand Bending – 10hrs: Conduit bending and installation and covers techniques for using hand-operated and step conduit benders, as well as cutting, reaming, and threading conduit.

Raceways, Boxes, and Fittings – 20hrs: Introduces the types and applications of raceways, wireways, and ducts, along with stressing the appropriate NEC requirements.

Conductors and Cables – 10hrs: Focuses on types and applications of conductors and covers proper wiring techniques.

Basic Electrical Construction Drawings – 7.5hrs: Focuses on electrical prints, drawings, and symbols and teaches types of information that can be found on schematics, one-lines, and wiring diagrams.

Residential Electrical Services – 15 Hrs.: Covers the electrical devices and wiring techniques common to residential construction and maintenance and allows trainees to practice making service calculations

Electrical Test Equipment – 7.5hrs: Focuses on proper selection, inspection, use & maintenance of common electrical test equipment and allows trainees to practice using many of the instruments while learning the appropriate test procedures and safety rules.

Total Hours Level One: 185



Northern Ohio
Chapter

CURRICULUM FOR ELECTRICAL LEVEL - 2 For ABC, Inc. - Northern Ohio Chapter, Training Program

Alternating Current – 17.5hrs: Focuses on forces that are characteristic of alternating-current systems and the application of Ohm's law to AC circuits.

Motors: Theory and Application – 20hrs: Covers AC and DC motor, including the main parts, circuits, and connections.

Electric Lighting – 15hrs: Introduces the basic principles of human vision and the characteristics of light as well as focuses on the handling and installation of the different kinds of lamps and lighting fixtures.

Conduit Bending – 15hrs: Covers all types of bends in all sizes of conduit up to 6" and focuses on mechanical, hydraulic, and electrical benders.

Pull and Junction Boxes– 12.5hrs: Driven by NEC, this explains how to select and size pull boxes, junction boxes and handholes.

Conductor Installations – 10hrs: Covers the transportation, storage, and setup of cable reels; methods of rigging; and procedures for complete cable pulls in raceways and cable trays.

Cable Tray – 7.5hrs: Focuses on NEC installation requirements for cable tray, including modifications and cable installations.

Conductor Terminations and Splices – 7.5hrs: Methods of terminating and splicing conductors of all types and sizes, including preparing and taping conductors.

Grounding and Bonding– 15hrs: Focuses on the purpose of grounding and bonding electrical systems. Thoroughly covers NEC regulations.

Circuit Breakers and Fuses – 12.5hrs: Describes fuses and circuit breakers along with their practical applications. Covers short-circuit calculation.

Control Systems and Fundamental Concepts – 12.5hrs: Gives basic descriptions of various types of contactors and relays along with their practical applications.

Total Hours Level 2: **145**

ADD 1/15/2011



CURRICULUM FOR ELECTRICAL LEVEL - 3 For ABC, Inc. - Northern Ohio Chapter, Training Program

Load Calculations – Branch Feeders and Circuits – 17.5hrs: Explains how to calculate branch circuit feeder loads for various residential and commercial applications.

Conductor Selection and Calculations – 15hrs: Types of conductors used in wiring systems, including insulation, current-carrying capacity, and temperature ratings.

Practical Applications of Lighting – 12.5hrs: Covers specific types of incandescent, fluorescent, and HID lamps, as well as ballasts, troubleshooting, and various types of lighting controls.

Hazardous Locations – 15hrs: Cover the NEC requirements for equipment installed in various hazardous locations.

Overcurrent Protection – 25hrs: Explains how to size and select circuit breakers and fuses for various applications.

Distribution Equipment – 12.5hrs: Explains distribution equipment, including grounding, switchboard and ground fault maintenance, transformers, and electrical drawing identification.

Transformers – 12.5hrs: Discusses transformer types, construction, connections, protection, and grounding along w/capacitors & rectifiers.

Commercial Electrical Services – 10hrs: Covers the components, installation considerations, and NEC requirements for various commercial services.

Motor Calculations – 12.5hrs: Cover single and multi-motor calculations to size conductors, overcurrent protection, and overload protection for motor applications.

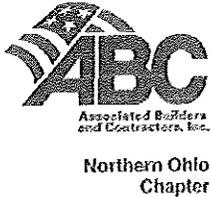
Voice, Data, and Video – 10hrs: Covers installation, termination, and testing of various voice, data, and video.

Motor Controls – 12.5hrs: Provides information on selecting, sizing, and installing motor controllers. Also covers control circuit pilot devices and basic relay logic.

Total Hours Level 3:

155

ADD 16 2011



CURRICULUM FOR ELECTRICAL LEVEL - 4

For ABC, Inc. - Northern Ohio Chapter, Training Program

Load Calculations – Feeders and Services – 15hrs: Basic calculation procedures and calculations for commercial and residential applications.

Health Care Facilities – 10hrs: Covers the installation of electric circuits in health care facilities, including the requirements for life safety and critical circuits.

Standby and Emergency Systems – 10hrs: Explains NEC installation requirements for electric generators and storage.

Basic Electronic Theory – 10hrs: Explains the function and operation of basic electronic devices, including semiconductors, diodes, rectifiers, and transistors.

Fire Alarm Systems – 15hrs: Covers fire alarm control units, Digital Alarm Communicator Systems (DACS), installation wiring for alarm initiating and notification devices, and alarm system maintenance.

Specialty Transformers – 15hrs: Covers various types of transformers and their applications, and provides information on selecting, sizing, and installing these devices.

Advanced Motor Controls – 20hrs: Explains applications and operation principles of solid-state controls, reduced-voltage starters, and adjustable frequency drives. Also covers basic troubleshooting procedures.

HVAC Controls – 15hrs: Provides a basic overview of HVAC systems and their controls. Also covers basic electrical troubleshooting and NEC requirements.

Heat Tracing and Freeze Protection – 10hrs: Covers various heat tracing systems along with their applications and installation requirements.

Motor Operation and Maintenance – 10hrs: Covers motor cleaning, testing, and preventative maintenance, and describe basic troubleshooting procedures.

Medium Voltage Terminations/Splices – 10hrs: Offers an overview of the NEC and cable manufacturers' requirements for high voltage terminations and splices.

Special Locations - 20hrs: Describes the NEC requirements for selecting and installing equipment, enclosures, and devices in various special locations.

Introductory Skills for the Crew Leader – 16hrs: Along with the principles of project planning, scheduling, estimating, and management, teaches the basic skills required for supervising personnel.

ASSOCIATED BUILDERS & CONTRACTORS, INC.

Northern Ohio Chapter

9255 Market Place West - Broadview Hts., OH 44147

440/717-0389

Fax: 440/746-0417

Date: July 10, 2000

To: STEVEN GERKEN

Registered: NO

From: Lana J. Lockett
Director of Apprenticeship

Employer: *BARTELS ELECTR

Re: Final Grades

Instructor: WOOLACE

CONGRATULATIONS on completing Electrical 1! Following are your test module grades and grade point average:

MODULES

GRADES

00101	CORE Safety	85
00102	CORE Math	95
00103	CORE Hand Tools	94
00104	CORE Power Tools	90
00105	CORE Blueprint Reading	100
00106	CORE Basic Rigging	81
26101	Electrical Safety	85
26102	Hand Bending	80
26103	Fasteners & Anchors	76
26104	Electrical Theory One	100
26105	Electrical Theory Two	100
26106	Electrical Test Equipment	80
26107	Introduction to the NEC	100
26108	Raceways, Boxes & Fittings	100
26109	Conductors	82
26110	Introduction to Electrical Blueprints	95
26111	Electrical Wiring: Commercial & Industrial	93
26112	Electrical Wiring: Residential	85

GRADE AVERAGE:

90.06%

ATTENDANCE:

Total days absent:

0

Total days made up:

0

If you have any questions, please give me a call. If not--- looking forward to seeing you in class next year! Enjoy the summer.



*Associated Builders and Contractors
Northern Ohio Chapter
9255 Market Place West
Broadview Heights, OH 44147*

nocabc@nocabc.co

www.nocabc.co

Phone: (440) 717-0389 Fax: (440) 746-041

Steve Gerken

Bartels Electric, Inc.
P.O. Box 110/County Rd S
Napoleon, OH 43545

APR 16 2003

FINAL GRADE REPORT

CRAFT Electrical

01 GRAMLING E2-Gramling E2

	Absent	GPA	Final Grade	OJT
	0/0	<u>93.15</u>	<u>93.15</u> A	<u>8021.80</u>
26201			92.00 A	
26202			90.00 A	
26203			93.00 A	
26204			90.00 A	
26205			87.00 B	
26206			100.00 A	
26207			93.00 A	
26208			93.00 A	
26209			93.00 A	
26210			87.00 B	
26211			100.00 A	
26212			93.00 A	

CRAFT Electrical

03E4E-Electrical 4 - Siracusa

	Absent	GPA	Final Grade	OJT
	0/0	<u>95.23</u>	<u>95.23</u> A	<u>8021.80</u>
26401			87.00 B	
26402			93.50 A	
26403			100.00 A	
26404			100.00 A	
26405			100.00 A	
26406			93.00 A	
26407			85.00 B	
26408			100.00 A	
26409			100.00 A	
26410			100.00 A	
26411			93.00 A	
26412			93.00 A	
FT				
LAB				

CRAFT Electrical

HARRIS E3 DEFIANCE-Electrical 3 Defiance

	Absent	GPA	Final Grade	OJT
	0/0	<u>93.31</u>	<u>93.31</u> A	<u>8021.80</u>
26301			88.00 B	
26302			86.00 B	
26303			93.00 A	
26304			86.00 B	
26305			100.00 A	
26306			93.00 A	
26307			93.00 A	
26308			100.00 A	
26309			79.00 C	
26310			95.00 A	
26311			100.00 A	
26312			100.00 A	
26313			100.00 A	



Department of Commerce

Division of Industrial Compliance & Labor

Ted Strickland, Governor
Kimberly A. Zurz, Director



GERKEN, STEVEN T

Ted Strickland Governor	Kimberly A. Zurz Director
Electrical CONTRACTOR'S LICENSE	
Ohio License # 36904	Expiration Date: 11/26/2011
STEVEN T GERKEN CUSTOM AGRI SYSTEMS INC	
<i>Carol Ross</i> Carol A. Ross Executive Secretary	<i>William Koester</i> William Koester Administrative Chairperson

This is YOUR license. Posting of YOUR license indicates that YOU are the contractor responsible.

YOU are required to display YOUR license in a conspicuous place. If you maintain more than one office or business location, a copy of YOUR license must be displayed at each location. If YOU advertise on YOUR vehicle, YOUR license number must be displayed on the vehicle(s) as well as all advertisements including but not limited to: business cards, telephone directories and other promotional materials.

Ted Strickland Governor	Kimberly A. Zurz Director
Electrical CONTRACTOR'S LICENSE	
STEVEN T GERKEN CUSTOM AGRI SYSTEMS INC	
Ohio License# 36904 Expiration Date: November 26, 2011	
<i>Carol Ross</i> Carol A. Ross Executive Secretary	<i>William Koester</i> William Koester Administrative Chairperson



INTERNATIONAL
CODE COUNCIL®

INTERNATIONAL CODE COUNCIL
CONTRACTOR EXAMINATION SERVICES
BIRMINGHAM REGIONAL OFFICE
900 MONTCLAIR ROAD
BIRMINGHAM, ALABAMA 35213
1-877-STD-EXAM

TO: Steven T Gerken



275-86-7149



FROM: ICC Examination Services Department

DATE: October 29, 2004

SUBJECT: October 9, 2004 Examination Administration

OHIO ELECTRICAL CONTRACTOR

We congratulate you on achieving a passing score on this examination administration. You have passed both tests required for a license. In order to obtain your State license, you must forward this letter, proof of liability in the amount of \$500,000, and a check for \$25.00 made payable to "TREASURER OF THE STATE OF OHIO" to:

Ohio Department of Commerce
Division of Industrial Compliance
Ohio Construction Industry Examining Board
6606 Tussing Road
P.O. Box 4009
Reynoldsburg, OH 43068

The Ohio Construction Industry Examining Board must approve the examination results before license can be issued. Once approved, the Board will then forward to you the appropriate documentation.

A passing score on this examination satisfies the testing requirements for licensing only, and does not guarantee that licensing will be granted.



INTERNATIONAL CODE COUNCIL
CONTRACTOR EXAMINATION SERVICES
BIRMINGHAM REGIONAL OFFICE
900 MONTCLAIR ROAD
BIRMINGHAM, ALABAMA 35213
1-877-STD-EXAM

TO: Steven T Gerken



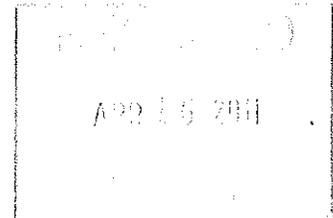
275-86-7149

FROM: ICC Examination Services Department

DATE: October 29, 2004

SUBJECT: October 9, 2004 Examination Administration

OHIO BUSINESS AND LAW



We congratulate you on achieving a passing score on this examination administration. You have passed both tests required for a license. In order to obtain your State license, you must forward this letter, proof of liability in the amount of \$500,000, and a check for \$25.00 made payable to "TREASURER OF THE STATE OF OHIO" to:

Ohio Department of Commerce
Division of Industrial Compliance
Ohio Construction Industry Examining Board
6606 Tussing Road
P.O. Box 4009
Reynoldsburg, OH 43068

The Ohio Construction Industry Examining Board must approve the examination results before license can be issued. Once approved, the Board will then forward to you the appropriate documentation.

A passing score on this examination satisfies the testing requirements for licensing only, and does not guarantee that licensing will be granted.

Ohio



Need your
Contractor's License?

AMERICAN
CONTRACTORS

Ohio

You must hold a state license do Electrical, HVAC, Refrigeration, Plumbing, or Hydronics work in Ohio. General construction contractors may need to be licensed at the local level. Check with the city or county for licensing information and requirements.

To find out if a tradesman holds a license in Ohio, click on <http://elicense1-lookup.com.ohio.gov/SearchCriteria.asp>.

- Asbestos Abatement License and Certificates
- Department of Transportation (DOT)
- Out-of-State Corporations

To apply for a plumbing, electrical, HVAC, hydronics, or refrigeration license, you need at least five years of experience in the field. You also have to be a U.S. citizen and have never been convicted of a felony. For information, contact:



Ohio Department of Commerce
Ohio Construction Industry Examining Board
6606 Tussing Road
P.O. Box 4009
Reynoldsburg, OH 43088-9009
(614) 644-3493
Fax: (614) 728-1200
<http://www.com.state.oh.us/>

Ohio has a reciprocal agreement with Kentucky and West Virginia for electrical only.

The Board will review your application and if you're eligible they'll send you information on the exam they require. You must have 5 years experience to qualify to take the exam. The exam has two parts -- one on business and law and the other on HVAC, electrical, plumbing, refrigeration, or hydronics. Everyone must take the business and law part.

For more information on the exams or practice exams, contact:



International Code Council
900 Montclair Road
Birmingham, AL 35213
(877) STD-EXAM
<http://www.iccsafe.org>

Exam details:

Business and Law Exam, 1-1/2 hours, open book
Subject
Business structure, practices and licensing

Questions
3

Ohio

Page 2 of 3

Estimating and bidding	4
Contracts and acceptance	2
Project management and planning	4
Financing and record keeping	4
Insurance and bonding	3
Labor laws and personnel policies	3
Tax, lien laws and dispute resolution	4
Safety and OSHA compliance	3
Electrical Contractor, 8 hours, open book	
Service, transformers and equipment	20
Wiring methods and installation	18
Cabinets, panelboards, switchboards, boxes, conduit bodies	5
Conductors	15
Control devices	6
Motors and generators	11
Utilization equipment and devices	8
Special occupancies and uses	11
Miscellaneous	6
Plumbing Contractor, 4 hours, open book	
Fixtures	7
Materials and fundamentals	10
Traps, cleanouts and interceptors	10
Special requirements	3
Drainage requirements	19
Vents	17
Water distribution	11
Plan analysis	23
HVAC, 4 hours, open book	
Theory, terminology and general requirements	15
Heating systems	20
Vents and connectors	10
Refrigeration	15
Piping systems	5
Air ducts systems	10
Ventilation systems	10
Operation procedures, maintenance and repairs	10
Special equipment and appliances	5
Refrigeration Contractor, 3 hours, open book	
Theory, terminology and general requirements	9
Compressors and types of systems	6
Evaporators, condensers and cooling towers	6
Piping inspection and field testing	6
Air duct and insulation	6
Electrical and controls	12
Refrigerants	6
Operation procedures	6

Ohio

Page 3 of 3

Maintenance and repairs	6
Hydronics Contractor, 2-1/2 hours, open book	
Water supply treatment and feed	5
Fuels and firing methods	4
General code applications and venting	4
Piping, pumps and valves	11
Controls and control systems	9
Maintenance and repairs	3
Tests and inspections	4

License Renewal

Licenses are renewed each year.

It will cost \$60 to renew and you must show proof of insurance (\$500,000 liability minimum) and have completed continued education requirements. Continued education requirements:

Plumbing, Hydronics, HVAC, Refridgeration - 10 hours total per year

Electrical - 10 hours total. 5 of the 10 must be in code.

If you are a multiple license holder, you are still only required to complete 10 hours for CE total.

Contractor's qualification certification exam fees: It'll cost you \$25 nonrefundable to file an application to take an exam. The exams cost \$70 for paper/pencil exam or \$120 for electronic each. Once you pass both parts of the exam, you send a copy of your scores, proof of liability insurance and \$25 to the Board and they'll issue your certificate. It's good for at least 12 months.

Back to the top ▲

License Qualification Process

The Ohio Construction Industry Licensing Board (OCILB) issues State Licenses to Commercial Contractors for the following trades: Electrical, HVAC, Hydronics, Plumbing, and Refrigeration. To receive a state license, an applicant must meet the following requirements:

Be at least 18 years of age.

Be a United States citizen or a legal alien-must provide proof of being a legal alien.

Either have been a tradesperson in the type of licensed trade for which the application is filed for not less than five (5) years immediately prior to the date the application is filed, currently be a registered engineer in this state with three (3) 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.

Not have been convicted of or plead guilty to a misdemeanor involving moral turpitude or of any felony.

Pass the examination in the trade.

Carry minimum \$500,000 contractor liability coverage.

Pay the applicable fees.

Be advised: ^{NEW}

Once you have been approved by the Board, you are required to complete a State and Federal Background Check prior to sitting for the examination.

Results must be submitted from the background agency directly to:

Ohio Department of Commerce
Division of Industrial Compliance and Labor
Ohio Construction Industry Licensing Board (OCILB)
6606 Tussing Road
P.O. Box 4009
Reynoldsburg, OH 43068-9009
Phone (614) 644-3493



CONTRACTOR REGISTRATION CERTIFICATE

STATE OF IOWA

DATE ISSUED: 10/29/2010

IOWA WORKFORCE DEVELOPMENT
DIVISION OF LABOR SERVICES
CONTRACTOR REGISTRATION

DATE EXPIRES: 10/29/2011

REGISTRATION NUMBER: C11180

1000 East Grand Ave.
Des Moines, IA 50319-0209
Phone (515) 242 - 6871

CUSTOM DRYER SERVICE LLC
255 COUNTY ROAD R
NAPOLÉON, OH 43545

David Neil, Commissioner

Your certificate will be enforced for 1 year if you are in compliance with contractor registration, unemployment insurance, and worker's compensation regulations. Falsifying any records may result in revocation of your certificate, \$500 civil penalty, and criminal prosecution.

Iowa Electrical Examining Board

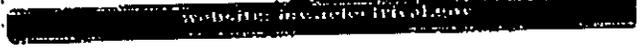
RICHARD STORCH JR
Master Class B Electrician



Expiration
12/31/2013

The Electrician's License issued to is
recognized by the Iowa Electrical Examining Board
to perform electrical work at the
level of a Master Class B Electrician.
Iowa Code Chapter 177A, Section 177A.500

John S. Bros
Board Chairperson *John S. Bros* Executive Secretary



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.

Section History: Recent Form

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.

Section History: Recent Form

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.

Section History: Recent Form

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 103.95.

Section History: Recent Form

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.

Section History: Recent Form

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.

Section History: Recent Form

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 bureau of apprenticeship and training 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, 1996, 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.

Section History: Recent Form

2007 Acts, ch 197, §22, 50; 2008 Acts, ch 1077, §2, 3; 2000 Acts, ch 1092, §16--18, 32
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 by the board, shall be issued to applicants who meet qualifications determined by the board, and shall be valid for the performance of residential installations, subject to limitations or restrictions established by the board.

b. A person who, on or after July 1, 2009, holds a special electrician license authorizing residential electrical installation, granted pursuant to section 103.13, shall be eligible for conversion of that special license to either a residential electrician license or a residential master electrician license, if established by the board, in accordance with requirements and procedures established by the board.

2. A person licensed by the board as a class A journeyman electrician or a class B journeyman electrician, or as a class A master electrician or a class B master electrician, shall not be required to hold a residential electrician or residential master electrician license to perform any type of residential installation authorized for a person licensed pursuant to this section.

3. 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.

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661—502.2 (103) License requirements.

502.2(1) An electrical contractor license may be issued to a person who submits to the board the required application with the applicable fee, who holds or employs a person who holds an active master electrician license, who is registered as a contractor with the labor services division of Iowa workforce development, and who is not disqualified pursuant to rule 661—502.4(103): An electrical contractor license issued to a person who holds a class B master electrician license is subject to the same restriction of use as is the class B master electrician license.

502.2(2) A class A master electrician license may be issued to a person who submits to the board a completed application with the applicable fee, who is not disqualified from holding a license pursuant to rule 661—502.4(103), and who meets one of the following requirements:

a. Has completed one year of experience as a licensed journeyman electrician, and has passed a supervised written examination for master electrician approved by the board with a score of 75 or higher; or

b. As of December 31, 2007, held a current valid license as a master electrician issued by a political subdivision in Iowa, the issuance of which required passing a supervised written examination approved by the board, and one year of experience as a journeyman electrician; or

c. Holds a current class B master electrician license and has passed a supervised written examination for master electrician approved by the board with a score of 75 or higher.

502.2(3) A class B master electrician license may be issued to a person who submits to the board a completed application with the applicable fee, who is not disqualified from holding a license pursuant to rule 661—502.4(103), who presents credible evidence of having worked for a total of eight years (16,000 hours of cumulative experience) as a master electrician since 1989, and whose experience as a master electrician began on or before December 31, 1989.

502.2(4) A class A journeyman electrician license may be issued to a person who submits to the board a completed application with the applicable fee, who is not disqualified from holding a license pursuant to rule 661—502.4(103), and who meets one of the following requirements:

a. Has successfully completed an apprenticeship program registered by the Bureau of Apprenticeship and Training of the United States Department of Labor, has passed a supervised written examination for journeyman electrician approved by the board with a score of 75 or higher, and has completed four years of experience as an apprentice electrician; or

b. As of December 31, 2007, held a current valid license as a journeyman electrician issued by a political subdivision in Iowa, the issuance of which required passing a supervised written examination approved by the board, and has completed a registered apprenticeship program and four years of experience as an apprentice electrician; or

c. Holds a current class B journeyman electrician license and has passed a supervised written examination for journeyman electrician approved by the board with a score of 75 or higher.

502.2(5) A class B journeyman electrician license may be issued to a person who submits to the board a completed application with the applicable fee, who is not disqualified from holding a license pursuant to rule 661—502.4(103), who presents credible evidence of having worked for a total of eight years (16,000 hours of cumulative experience) as a journeyman or master electrician since 1989, and whose experience as a journeyman or master electrician began on or before December 31, 1990.

502.2(6) A special electrician license may be issued to a person who submits to the board a completed application with the applicable fee, who is not disqualified from holding a license pursuant to rule 661—502.4(103), and who meets the qualifications for any endorsement entered on the license. Each special electrician license shall carry one or more endorsements as specified in paragraphs "a" through "d."

a. Endorsement 1, "Irrigation System Wiring," shall be included on a special electrician license if the licensee requests it and has passed a supervised examination approved by the board or has completed two years, or 4,000 hours, of documented experience in the wiring of irrigation systems.

b. Endorsement 2, "Disconnecting and Reconnecting Existing Air Conditioning and Refrigeration Systems," shall be included on a special electrician license if the licensee requests it and has passed a

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supervised examination approved by the board or has completed two years of documented experience in the disconnecting and reconnecting of existing air conditioning and refrigeration systems.

c. Endorsement 3, "Sign Installation," shall be included on a special electrician license if the licensee requests that it be included. This endorsement does not authorize a licensee to connect power to a sign that has a voltage greater than 220V and an ampere rating greater than 20 amps. Initial installation or upgrading of the branch circuits supplying power to the sign shall be completed by a licensed master electrician or by a licensed journeyman electrician under the supervision of a master electrician.

d. Endorsement 4, "Residential Electrician," shall be included on a special electrician license if the licensee requests it and has passed a supervised written examination approved by the board or has completed four years of documented experience performing residential electrical work. A political subdivision may, by enactment of an ordinance filed with the board prior to its effective date, require that a special electrician performing work authorized by this endorsement be supervised by a master electrician.

502.2(7) An apprentice electrician license may be issued to a person who submits a completed application to the board with the applicable fee, who is not disqualified pursuant to rule 661—502.4(103) and who is participating in an apprenticeship training program that is registered with the Bureau of Apprenticeship and Training of the United States Department of Labor. A person may hold an apprentice electrician license for no more than six years from the original date on which an apprentice electrician license is granted, except that a person may apply to the board for an exception to this limitation based upon a documented hardship. "Documented hardship" includes, but is not limited to, an interruption in service as an apprentice electrician for active military duty or for an extended illness.

502.2(8) A license as an unclassified person may be issued to a person who submits a completed application to the board with the applicable fee, who is not disqualified pursuant to rule 661—502.4(103) and who is employed by a licensed electrical contractor.

502.2(9) In lieu of renewal of the active master electrician license, an inactive master electrician license may be issued to a holder of a master electrician license whose license is due for renewal and who requests placement in inactive status. A holder of an inactive license shall maintain all requirements which would apply for an active master electrician license, except for payment of the fee required for an active license, during the term of the inactive license. If the license holder fails to meet any such requirement during the term of the inactive license, the license holder shall not be entitled to reinstatement of an active license. If the license holder continues to meet all such requirements while holding an inactive license, the license holder may obtain an active master electrician license by surrendering the inactive master license, filing an application for reinstatement, and paying the applicable license fee. The holder of an inactive license who seeks reinstatement of an active license shall not receive any refund of the fee paid for the inactive license. A person who holds an inactive license may not perform work which requires the person to be a holder of that license, but may perform work authorized by any active license issued by the board which the person holds.

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