



GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
LANSING

ORLENE HAWKS
DIRECTOR

AGENDA
MICHIGAN FIRE FIGHTERS TRAINING COUNCIL REGULAR MEETING

Detroit Public Safety Headquarters – 3rd Floor, Skylar Conference Room
1301 3rd Street, Detroit, MI 48226
Tuesday, August 8, 2023
1:30 pm

- | | | |
|-------|-------------------------------------------------------------------------|-------------------------|
| I. | Call to Order, Moment of Silence, and Determination of Quorum | Chairperson Stokes |
| II. | Approval of Agenda | Chairperson Stokes |
| III. | Approval of Minutes: June 13, 2023 Regular Meeting | Chairperson Stokes |
| IV. | Communications | |
| V. | State Fire Marshal's Report | Fire Marshal Sehlmeier |
| VI. | Curriculum Committee Update | Councilperson Blomstrom |
| VII. | Old Business: | |
| | a. Q Course Catalog Discussion | Council Discussion |
| | b. Follow-up from Fire Groups Hosting a MFFTC Meeting | Council Discussion |
| | c. ICS 300 & 400 | Fire Marshal Sehlmeier |
| VIII. | New Business: | |
| | a. Closing Out FY23 Fireworks Safety Fee Funding | Fire Marshal Sehlmeier |
| | b. Q Course Applications: | |
| | 1. Emergencies with Electric Vehicles (FMQ23-028) | Lance Forrest |
| | 2. 40-Hour Basic Aircraft Rescue Firefighting Course (FMQ23-029) | Eric J Thomas |
| IX. | Public Comment | |
| X. | Council Comment | |
| XI. | Adjournment | |

Next Meeting:

Tuesday, October 17, 2023 at 1:30 pm
Delta Township Fire Department, Station #1
811 N. Canal Road, Lansing, MI 48917

Agenda Items Due:

5:00 pm on Tuesday, October 3, 2023



GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
LANSING

ORLENE HAWKS
DIRECTOR

MINUTES
MICHIGAN FIRE FIGHTERS TRAINING COUNCIL REGULAR MEETING

Delta Twp. Fire Department - Station 1 Training Room
811 N. Canal Road, Lansing, MI 48917
Tuesday, June 13, 2023
1:30 pm

MEMBERS PRESENT:

Kevin Beeson, Michigan Townships Association
Brian Blomstrom, Michigan Fire Service Instructors Association
Kurt Corradi, Michigan Association of Fire Chiefs
David Feichtner, Michigan Association of Fire Chiefs
Kevin Sehlmeier, State Fire Marshal, Ex-officio Member
Joseph Schehr, Michigan Professional Firefighters Union
Robert Stokes, Chairperson, Nominee of the State Fire Marshal
Steve Richardson, Michigan State Firemen's Association
Kyle Svoboda, Vice Chairperson, Michigan Fire Inspectors Society

MEMBERS ABSENT:

None

BUREAU OF FIRE SERVICES STAFF PRESENT:

Macie Smith, Department Technician, Fire Fighter Training Division, Recording Secretary
Dan Hammerberg, Region 1 Training Chief, Fire Fighter Training Division
Aileen Pettinger, Region 2 Training Chief, Fire Fighter Training Division
Liam Carroll, Certification Chief, Fire Fighter Training Division
Mauricio Barrera, Public Assembly Fire Safety Inspector

OTHERS IN ATTENDANCE:

Cameron Pichan, Detroit Fire Department
Robert Ginther, Beverly Hills Department of Public Safety
Joshua Mosher, Midland Fire Department
Andy Bezenah, B&B LFT
Martin Erskine, Marshall Fire Department
Todd Bradley, B&B LFT
Jacob Washburn, Fredonia Township Fire Department / Calhoun County Training Committee
Tim Baker, Lansing Community College
Joshua Fouchia, Shelby Township Fire Department / Macomb City County Training Committee
Larry Gambotto, Rochester Hills Fire Department

I. CALL TO ORDER AND DETERMINATION OF QUORUM:

Chairperson Stokes called the regular meeting to order at 1:31 pm. A moment of silence was observed for our fallen firefighters. Roll call was taken by recording secretary, Macie Smith. A quorum was present.

II. REVIEW AND APPROVAL OF AGENDA:

23-06-01

A **MOTION** was made by **Councilperson Svoboda** and seconded by **Councilperson Richardson** to approve the June 13, 2023 regular meeting agenda as presented. **MOTION CARRIED.**

III. REVIEW AND APPROVAL OF MINUTES:

23-06-02

A **MOTION** was made by **Councilperson Feichtner** and seconded by **Councilperson Blomstrom** to approve the April 11, 2023 regular meeting minutes as presented. **MOTION CARRIED.**

IV. COMMUNICATIONS:

Fire Marshal Sehlmeier received an inquiry regarding the FY23 funding for Allegan County. Allegan County cancelled a NFPA 1021 Fire Officer I course on March 24, 2023. On April 5, 2023, the Bureau of Fire Services (BFS) Fire Fighter Training Division (FFTD) pulled back the funding for this course in the amount of \$2,686.85. SMOKE sends a notification when a transfer of funding is completed. The 30-day deadline for Allegan County to reallocate the funds was April 23, 2023. On May 4, 2023 and on May 11, 2023, the Allegan County Secretary and Treasurer reached out to the FFTD requesting the funding be returned. Since the 30-day deadline established by the Michigan Fire Fighters Training Council (MFFTC) in December 2022 had passed, the funds were not returned.

V. STATE FIRE MARSHAL'S REPORT:

- a) **FY23 Course Summary:** Council was provided with an updated course summary in their meeting packet. Fire Marshal Sehlmeier gave an overview of the course summary.
- b) **Exam Totals (March – June):** Fire Marshal Sehlmeier informed council that from March 1, 2023 to June 12, 2023 the FFTD has graded a total of 347 exams and sent out a total of 218 exam packets. All exams were graded on average within .8 days of receiving the exam packet in the bureau office. He would like to thank all Training Coordinators for their hard work administering exams.
- c) ***Change* ADA Readers for ALL Certification Exams:** Fire Marshal Sehlmeier reported that after a lot of research and discussion, the BFS has determined that all certification exams stated in Public Act 291 may allow for a reader. To receive a reader a student must apply and be approved for a reader by completing a BFS-856 Accommodation Request form.
- d) **Training Coordinator Updates:** Fire Marshal Sehlmeier shared that there are three Training Coordinators who have decided to step down. Those three Training Coordinators are Kurt Corradi, Bob Grabinski, and Rick VanHorn. Fire Marshal

Sehlmeyer would like to thank each one of them for all their hard work and dedication over the years. The bureau also has three new Training Coordinators that have been onboarded. The new Training Coordinators are Randy Case, Jim Stevenson, and Bob Hoffman. Moving forward, because of the changes in Training Coordinators, it is advised that all course managers review the map on the BFS website to determine who your Training Coordinator will be for certification exams in your area.

- e) **Fire Instructor III:** Fire Marshal Sehlmeyer reported the FFTD continues to develop the Fire Instructor III curriculum with an anticipated launch date of October 1, 2023.
- f) **FY23 Courses Funded with Returned Fireworks Funds:** A breakdown of the FY23 courses funded with returned fireworks funds was provided to council in their meeting packet. Fire Marshal Sehlmeyer advised that on January 1, 2023, all unencumbered fireworks safety funds were transferred back to the MFFTC account. To date, the bureau has used the returned unencumbered funding (\$99,649.93) to fund a total of 31 courses (21 certification for \$78,199.93 and 10 mental health courses for \$21,450.00) as directed by council (Motion #22-12-05). If anyone would like to request funding for a course, please reach out to Hollie Metts at mettsh@michigan.gov.
- g) **SMOKE Enhancements:** Fire Marshal Sehlmeyer shared that staff continues to work on improvements in the SMOKE system. For the first time ever, the bureau now has the availability to send out emails through the SMOKE system to every user. Additionally SMOKE now sends out an email reminder to course managers for course closure/finalization at 15 days, 30 days, and 45 days. Another recent SMOKE enhancement gives BFS the ability to send out an email notification to both the course students and the course manager as soon as the exams are graded and uploaded into the SMOKE system.
- h) **NFIRS Non-Reporting Departments:** Council was provided with an updated list of non-reporting departments in their meeting packet. Fire Marshal Sehlmeyer advised there are 140 departments that have not submit any fire reports so far during the 2023 calendar year. These non-reporting departments are not eligible to use Fireworks Safety Fees for training until they become compliant. Fire Marshal Sehlmeyer shared that NFIRS will be going away and will be replaced with a cloud-based system being developed by UL Solutions.
- i) **Reminder for CTCs:** Fire Marshal Sehlmeyer would like to remind all County Training Committees that the Annual Training Needs Surveys are due by June 15th. Every county must submit the survey to receive FY24 funding.
- j) **Fatal Fire Update:** As of June 13, 2023, there were 59 fire deaths in 56 fires. This is a 4% decrease in deaths and a 7% increase in fires based on the 2017-2022 average.
- k) **Introducing Mauricio Barrera, Public Assembly Inspector:** Fire Marshal Sehlmeyer introduced Mauricio Barrera again as the new Public Assembly Fire Safety Inspector for those who were unable to attend the MFFTC Meeting in Novi, MI in April 2023.

VI. CURRICULUM COMMITTEE UPDATE:

Councilperson Blomstrom reported that there are no meetings scheduled at this time.

VII. OLD BUSINESS:

a. Q Course Applications tabled from the April MFFTC Meeting:

ASIST (Applied Suicide Intervention Skills Training) **(FMQ23-017)**

Instructor: Lisa Clavier and Denise Shea / Phone: 231-675-5047

Live Fire Instruction **(FMQ23-018)**

Instructor: Curtis Walters / Phone: 231-313-6293

23-06-03

A **MOTION** was made by **Councilperson Svoboda** and seconded by **Councilperson Blomstrom** to **remove** Q Course applications **FMQ23-017** and **FMQ23-018** from being tabled for further discussion. **MOTION CARRIED.**

23-06-04

A **MOTION** was made by **Councilperson Schehr** and seconded by **Councilperson Corradi** to **approve** Q Course application **FMQ23-017**. **MOTION CARRIED.**

23-06-05

A **MOTION** was made by **Councilperson Svoboda** and seconded by **Councilperson Schehr** to **dismiss** Q Course application **FMQ23-018** due to a lack of requested documentation being submitted. **MOTION CARRIED.**

b. ICS 300 & 400: Fire Marshal Sehlmeier shared that as of today there is no update.

VIII. NEW BUSINESS:

- a. Q Course Catalog Update:** Council was provided with a spreadsheet in their packet with a list of courses from the Q-Course Catalog that have not been ran in the past five years. The FFFD staff has put in over 70 hours of staff time into creating this spreadsheet for council. Discussion was had regarding what to do with the courses that have not ran at all in the past five years. It was determined to remove these courses from the Q-Course Catalog. A new BFS-201 Q-Course Application form will need to be submitted to put the course back onto the catalog.

23-06-06

A **MOTION** was made by **Councilperson Schehr** and seconded by **Councilperson Feichtner** to **remove** the following Q-Courses from the Q-Course Catalog: **Q04B, Q05I, Q06A, Q07A, Q09A, Q12A, Q13E, Q13G, Q17A, Q18A, Q21A, Q22I, Q24A, Q26A, Q29A, Q30A, Q31A, Q32A, Q34A, Q35A, Q39A, Q49A, Q50A, Q52D, Q57B, Q57H, Q57J, Q59A, Q62B, Q62C, Q63A, Q64B, Q66A, Q66P**. **MOTION CARRIED.**

Council Member Feichtner asked that a 'Q Course Catalog Update' be added to the agenda under Old Business for the next MFFTC Meeting on August 8, 2023. This will be to discuss how to move forward with removing Q-Courses that have not run in a certain amount of time.

- b. Revisions to the 2023 MFFTC Meeting Schedule:** Discussion was had regarding all MFFTC meetings being held at a central location or move to different locations each meeting. If council chooses to continue with meetings at different locations should, each group represented on council be given the chance to host a MFFTC

meeting at their conference should the schedule allow it. Council decided to take time to go back to each of the represented groups to determine if the groups have interest in hosting a meeting at their conference and if the conference time/location would allow for them to do so. It was asked that 'MFFTC Meeting Locations' be added to the agenda under Old Business for the next MFFTC meeting on August 8, 2023.

c. Q Course Applications:

LCC Basic Irons (FMQ23-020)

Instructors: Lansing Community College Regional Training Center Staff

Phone: 517-483-5227

Mitigating New Vehicle Technology Extrications and Electric Vehicle Fire Challenges (FMQ23-022)

Instructor: Aaron Heller

Phone: 609-743-0166

Managing Rural Water Supply (FMQ23-023)

Instructors: Ted Lilley and Eric Abbott

Phone: 248-830-8893 (Ted) or 906-364-5316 (Eric)

Fire Ground Decision Making: Fire Behavior and Thermal Imaging 2 Hour Course (FMQ23-024)

Instructor: Andrew Bezenah

Phone: 248-521-5453

Fire Ground Decision Making: Fire Behavior and Thermal Imaging 4 Hour Course (FMQ23-025)

Instructor: Andrew Bezenah

Phone: 248-521-5453

Fire Ground Decision Making: Fire Behavior and Thermal Imaging 8 Hour Course (FMQ23-026)

Instructor: Andrew Bezenah

Phone: 248-521-5453

Fire Ground Decision Making: Fire Behavior and Thermal Imaging 16 Hour Course (FMQ23-027)

Instructor: Andrew Bezenah

Phone: 248-521-5453

Councilperson Schehr expressed a need for discussion in relationship to Q Course application FMQ23-021. Further discussion will be had after motion 23-06-07. .

23-06-07

A **MOTION** was made by **Councilperson Feichtner** and seconded by **Councilperson Schehr** to **approve** Q Course applications **FMQ23-020, and FMQ23-022 through FMQ23-027. MOTION CARRIED.**

Further discussion was held regarding Q Course application FMQ23-021. Council called on the applicant, Robert Ginther, for further explanation about the Fire/Rescue 1 Academy Learning Management System (LMS).

Fire/Rescue 1 Academy **(FMQ23-021)**

Instructors: Fire/Rescue 1 Academy

Phone: 248-721-0758

23-06-08

A **MOTION** was made by **Councilperson Blomstrom** and seconded by **Councilperson Svoboda** to **approve** Q Course application **FMQ23-021**. **MOTION CARRIED.**

IX. PUBLIC COMMENT:

Chief Martin Erskine asks that all represented organizations to verify their conferences are open to the public and that more than just their members can attend a MFFTC meeting when hosted by a fire organization. He shared that he attended the MFFTC meeting hosted at the Chiefs Conference this past April in Novi and that the meeting was was open for the public to attend, not just chiefs.

X. COUNCIL COMMENT:

Councilperson Corradi would like to thank Liam Carroll and the BFS for all the hard work on the SMOKE enhancements. As an instructor himself, he shared the enhancements have saved him a great deal of time. Also, would like to thank the bureau for the 70 hours put into the Q-Course spreadsheet.

XI. ADJOURNMENT:

23-06-09

A **MOTION** was made by **Councilperson Feichtner** and seconded by **Councilperson Schehr** to **adjourn** the meeting. **MOTION CARRIED.** The meeting adjourned at 3:25 pm.

APPROVED:



"Q" COURSE APPLICATION

Michigan Department of Licensing & Regulatory Affairs
Bureau of Fire Services, Fire Fighter Training Division
P.O. Box 30700 Lansing, MI 48909

Email: LARA-BFS-SMOKE@MICHIGAN.GOV

FMQ23-028

To add a seminar/course/workshop to be credentialed in SMOKE, submit this application and all required documents to the following email address: LARA-BFS-SMOKE@MICHIGAN.GOV. The information provided will be reviewed and if complete will be forwarded to the Michigan Fire Fighters Training Council (MFFTC) for curriculum consideration at the next scheduled MFFTC meeting. All applications must be received by the close of business two weeks before the scheduled MFFTC meeting date to be included on the agenda.

SECTION I

Name of Instructor:

Instructor's Street Address:

City:

State:

Zip Code:

Instructor's Cell Phone Number:

Instructor's Email:

SECTION II

Name of Course/Seminar/Workshop:

REQUIRED

Flyer Attached:

Course Overview Attached:
Goals, Objectives, Course Outline

Instructor(s) Biography Attached:

Must provide a brief course description (100 words or less):

Must list the applicable NFPA standard(s):

Student Capacity:

Total Hours of Training:

Total Cost:

SECTION III

Instructor's Signature:

Date:

BFS USE ONLY

Date Approved by MFFTC:

"Q" Course Number Assigned:

Date Course Catalog Updated:

Course Goals

- 1: To be able to identify electric vehicles, their special hazards and render the high voltage electrical system safe for extrication and or fire suppression.
- 2: To quickly be able to get the needed technical information about any model of electric vehicle.
- 3: To be able to safely mitigate incidents involving electric vehicles.
- 4: To understand some of the specialty tools and methods that have been created to help first responders mitigate incidents with electric vehicles.

Course Objectives

- 1: Identify the vehicle.
- 2: Find the location of the high voltage wires.
- 3: Isolate the energy in the high voltage battery.
- 4: Perform extrication of occupants.
- 5: Recognize thermal run-away.
- 6: To decide if fire suppression is the best course of action.
- 7: Recognize and mitigate health hazards for vehicle occupants and First Responders.
- 8: Learn how to quickly lift the vehicle to gain access to the battery for fire suppression.
- 9: To be able to identify if a Lithium-Ion cell that has been involved in an incident still has stored energy.
- 10: To safely clean up the scene after an incident involving electric vehicles.
- 11: To know when an electric vehicle can safely be turned over to 2nd Responders.
- 12: To be able to make a recommendation to your department on specialty tools created for electric vehicle incidents.

OUTLINE for Emergencies with Electronic Vehicles

1. **Lithium-Ion Battery Construction**
 - a. Cathode
 - b. Anode
 - c. Separator
 - d. Electrolyte
 - e. Vent
2. **Charging and Discharge**
 - a. Ion Transfer
 - b. Computer Controlled
 - c. Side Effects (heat)
3. **Tesla Model S (video)**
 - a. High Voltage Electrical System Explanation
 - b. Vehicle Identification
 - c. Key Card or Fob
 - d. Door, Frunk and Trunk Latches
 - e. Dash Roll
 - f. Door Pop
 - g. Stabilization
4. **Tesla Model 3 (video)**
 - a. Model Specific High Voltage Electrical
 - b. Vehicle Identification
 - c. Key Fob or Card
 - d. Doors, Frunk and Trunk Latches
 - e. Dash Roll
 - f. Door Pop
 - g. Stabilization
5. **Tesla Model X (video)**
 - a. Model Specific High Voltage Electrical
 - b. Key Fob
 - c. Door, Frunk and Trunk Latches
 - d. Door Pop
 - e. Gull Wing Door Removal
 - f. Side Wall Removal
6. **Lithium-Ion Battery fire Causes**
 - a. Rapid Battery Discharge
 - b. Charging
 - c. Battery Damage
 - d. Submersion
7. **Lithium-Ion Battery Safety**
 - a. PPE
 - i. Structure Gloves
 - b. Isolate
 - i. Hydrogen Fluoride Gas / Phosphoryl Gas
 - ii. Staging Location
 - iii. Bystanders

8. Lithium-Ion Battery Tactics

- a. Fire or No Fire
 - i. TIC
 - ii. 4-Gas Meter
 - iii. Submerged
- b. Hose Line Selection
- c. Decisions
 - i. Let it Burn
 - ii. Put it Out
- d. Suppression
 - i. Water Supply
 - ii. Battery Access Vents
 - iii. Jaws and Step chalks
- e. Fire is Out
 - i. Monitor time
 - ii. Tic Temperature

9. 2ND Responders / Tow Company

- a. PPE
- b. Loading the Vehicle
 - i. Roll Back Truck
 - ii. Vehicle Ground Protection
 - iii. Fire Department Follow and Protect
 - iv. Cell Clean up
 - v. Yard Isolation

10. Emergency Response Guides

- a. NFPA Shortcut
- b. Energy Security Agency
 - i. E/V Hotline
 - ii. Web Site Shortcut
- c. ANCAP Rescue
- d. EURO Rescue

11. ERG Practice

- a. Vehicle # 1
- b. Vehicle #2
- c. Vehicle #3

12. Helpful Tools

- a. Emergency Plug
- b. Fire Blanket
- c. Rosenbaur Battery Pierce Nozzle
- d. F-500 Encapsulator

Biography

Lance Forrest began his fire service career in March of 2013 with the Elba Township Fire Department in Lapeer County. He completed Firefighter 1&2 that same year. In September of 2017 he completed Company Officer 1,2&3. Then in October of 2020 he became a Probationary Instructor 1 and finally received full Instructor 1 status in October of 2021.

In 2021 he was promoted to the rank of Sergeant with the Elba Township Fire Department. Then in 2022 he was promoted to Lieutenant of Public Education.

LT. Forrest enjoys instructing at the LCFA Fire Academy and finds it very rewarding helping academy students realize their true potential. He has found that every academy class has its own unique students, with their individual challenges that help him to become a better instructor.

In 2022 he was tasked with creating a company training on electric vehicles. It took him several months of research to create a 2-hour class on the hazards of electric vehicles. Word of the training soon got out and he was asked to present the training at several local fire departments. Then at the 2022 MSFA fall school he was asked to present his Hazards with Electric Vehicles class for the 2023 MSFA conference. This was a big task because the class needed to be extended to a 4-hour class. It was a Great honor to be trusted with this as a new instructor.

LT Forrest continues to further his fire service education every chance he gets and looks forward to what the future holds for him.

Emergencies with Electric Vehicles

Presented by: LT Lance Forrest

This course will instruct you how to prepare for and mitigate emergencies with electric vehicles. It is a 4-hour Power Point and lecture E/V class that covers the high voltage systems and extrication of the Tesla models S,3 and X. The Power Point will also cover the construction and make up of the Lithium-Ion battery along with useful information and concepts that can be used in fire suppression, extrication and scene clean-up on any electric vehicle of any make or model. We will also discuss some helpful tools that are on the market now to help aid First Responders in mitigating emergencies with electric vehicles.

Training Dates:

Training Location:

Training Location Address:

Sponsored by:

Registration instructions: Register in SMOKE, contact the number or email below.

Contact:

Phone:

Email:



"Q" COURSE APPLICATION

Michigan Department of Licensing & Regulatory Affairs
Bureau of Fire Services, Fire Fighter Training Division
P.O. Box 30700 Lansing, MI 48909
Email: LARA-BFS-SMOKE@MICHIGAN.GOV

FMQ23-029

To add a seminar/course/workshop to be credentialed in SMOKE, submit this application and all required documents to the following email address: LARA-BFS-SMOKE@MICHIGAN.GOV. The information provided will be reviewed and if complete will be forwarded to the Michigan Fire Fighters Training Council (MFFTC) for curriculum consideration at the next scheduled MFFTC meeting. All applications must be received by the close of business two weeks before the scheduled MFFTC meeting date to be included on the agenda.

SECTION I

Name of Instructor:

Eric J. Thomas

Instructor's Street Address:

11029 WestPoint St.

City:

Taylor

State:

MI

Zip Code:

48180

Instructor's Cell Phone Number:

734-716-4646

Instructor's Email:

Hazmat1423@gmail.com

SECTION II

Name of Course/Seminar/Workshop:

40-Hour Basic Aircraft Rescue Firefighting Course

REQUIRED

Flyer Attached: ☒

Course Overview Attached: ☒
Goals, Objectives, Course Outline

Instructor(s) Biography Attached: ☒

Must provide a brief course description (100 words or less):

This 40 hour Basic ARFF Course will instruct the students on the basic Aircraft Rescue Fire Fighting skills as required by the FAA. This course will met the requirements of FAR 139 as required by the FAA & NFPA 1003. This course will have both lecture and hands on instruction and will have 2 instructors for the course. This Course will be held 8 hours /day . Students are responsible for Books and electronic software. Class will be using newest Aircraft Rescue Firefighting editions. This course provides students with the fundamental knowledge and skills necessary to effectively manage and mitigate an aircraft emergency. Knowledge will be tested daily with quizzes followed by a final on the final day. Students must pass the final exam by 70% to receive certificate.

Must list the applicable NFPA standard(s):

NFPA 1003;407,403,412,414,470,1404,1582,1500,1403,1971,1981;1975;1584;1901;11;10

Student Capacity: 20

Total Hours of Training: 40 hour

Total Cost: \$ 7,500

SECTION III

Instructor's Signature:

Date:

7-14-2023

BFS USE ONLY

Date Approved by MFFTC:

"Q" Course Number Assigned:

Date Course Catalog Updated:

40-Hour Basic ARFF Course

Description: This is a 40-hour Basic ARFF Course that will instruct the students on basic Aircraft Rescue Fire Fighting skills as required by the FAA. By completing this course, the student will meet the basic requirements of FAR 139. 319 (i) / AC No: 150/5210-17C as required by the FAA & NFPA 1003 - Qualifications of an Aircraft Rescue Firefighter. This course will have both lecture and some hands-on instruction. Each day of class and will have 2 instructors for the course. This Course will be held 8 hours each day for 5 days. Students and / or sponsoring agency are responsible for textbooks and electronic software used for the course. Class will be using newest Aircraft Rescue Firefighting editions and curriculum, currently the IFSTA Aircraft Rescue and Firefighting 6th Edition Book but may change due to newer editions and curriculum. The requesting agency will be notified of any changes of book and curriculum changes by the lead instructor.

Goals: The goal of this course is that upon completion the student will have sufficient basic knowledge to apply skills and successfully perform basic Aircraft Rescue firefighting. Meeting these goals will accumulate into achieving the basic qualifications to meet the basic requirements for an aircraft rescue firefighter as set for by NFPA 1003 and FAR 139. 319 (i) / AC No: 150/5210-17C. The goal is to provide sufficient training and instruction such that firefighters can function well as part of a team.

Objectives: Initial training provided by each chapter will enable personnel to identify and interpret advanced theories, facts, concepts, principles, requirements, procedures, equipment, and components of ARFF. Trainees must also be able to apply these principles to the aircraft serving the airport and demonstrate all required tasks safely and accurately and in accordance with established procedures.

Completion of this course will provide the students with the fundamental knowledge and skills necessary to effectively manage and mitigate an aircraft emergency. Knowledge will be tested daily with quizzes on the chapters covered followed by a final exam on the final day of class. Students **must pass** the final exam by **70%** to receive certificate.

Course Outline: Each day Class will begin by the specified agreeable time between the requesting agency and the instructor. Class will begin promptly everyday at the same specified time. There will be a sign in sheet every day of the course which student s must sign the roster. The instructors (2) will cover the specified scheduled chapters for class on that day. Each class day will be 8 - hours long with a 1-hour lunch break and 15 min breaks every hour. As noted earlier there will be lectures, Video content, and hands-on with equipment provided by both the sponsoring agency and instructor(s). This course will follow the IFSTA 6th edition or current curriculum provided by the book authors. The last day of the course will be the course exam, remediation, and course evaluations as well as closing comments. Students **MUST attend 100%** of the course and pass with a minimum of **70%** to receive a course completion certificate.

The course will cover the following chapters:

Chapter 1: Qualifications for Aircraft Rescue and Fire Fighting Personnel

Chapter 2: Airport Familiarization

Chapter 3: Aircraft Familiarization

Chapter 4: Safety and Aircraft Hazards

Chapter 5: Communications

Chapter 6: Rescue

Chapter 7: Extinguishing Agents

Chapter 8: Apparatus

Chapter 9: Fire Suppression, Ventilation, and Overhaul

Chapter 10: Driver/Operator

Chapter 11: Airport Emergency Planning

Chapter 12: Strategic and Tactical Operations

Instructor Biography

Eric J. Thomas, AMF

Lieutenant; Hazmat Specialist; Fire Instructor; Hazmat Instructor; Airport Master Firefighter

27 years In the Fire Service. I started my career as a paid-on call firefighter with the Brownstown Twp. Fire Dept. I have been with Detroit Metro Airport Fire Dept. for approx. 23 years of service as an Aircraft Rescue Firefighter (ARFF) & Airport Master Firefighter. I am currently a Lieutenant with the Detroit Metro Airport Fire Department. I have 23+ Years in Hazmat ranging from Industry emergency response to the Fire Hazmat side of response. I am a Hazmat Specialist, AHLS & Toxic - Medic, Paramedic, Aircraft Fire Rescue Firefighter, Structural Firefighter, Radiation Technician and Radiation awareness instructor, CBRNE Tech, Certified Fire Instructor II, State of Michigan Hazmat Instructor, Confined Space Tech, NFFF CTBS Instructor and Member, NFPA 1403 Live Fire Certification, FAA Part 107 Pilot (uSAS), Hazmat Team Training Coordinator & Team Leader for Western Wayne Hazmat & Downriver Hazmat Team. I am also a professor at a local community college to my area, where I teach Fire I & II, Company Officer classes, Fire Instructor 1, CPR, First Aid, Hazmat classes. I also teach at the MSP Emergency Hazmat Training Center in Lansing and part of the MABAS Hazmat Validation Team.

In my free time, when I find it, I enjoy camping, hunting, and fishing and teaching and learning new thing in the fire service. My hobbies are rest and relaxation and wood working and raising 4 girls and a granddaughter.

40-Hour Basic Aircraft Rescue Firefighter Course

Presented by: Lt. Eric J. Thomas AMF - FHET Training LLC

This is a 40-hour Basic ARFF Course that will instruct the students on basic Aircraft Rescue Fire Fighting skills as required by the FAA. By completing this course, the student(s) will meet the basic requirements of FAR 139. 319 (i) / AC No: 150/5210-17C as required by the FAA & NFPA 1003 - Qualifications of an Aircraft Rescue Firefighter.

This course will have both lecture and some hands-on instruction. Each day of class and will have 2 instructors for the course. This Course will be held 8 hours each day for 5 days. Students **MUST attend 100%** of the course and pass with a minimum of **70%** to receive a course completion certificate

This is a smoke class so please register in SMOKE no later than 2 weeks prior to class start date. Please contact the course coordinator below to attend if not from sponsoring agency. Class capacity is 15 – 20 students with minimum of 10 students.

Students and / or sponsoring agency are responsible for textbooks and electronic software used for the course. Each class day will be 8 - hours long with a 1-hour lunch break and 15 min breaks every hour Class will be using newest Aircraft Rescue Firefighting editions and curriculum, currently the IFSTA Aircraft Rescue and Firefighting 6th Edition Book but may change due to newer editions and curriculum. The requesting agency will be notified of any changes of book and curriculum changes by the lead instructor.

Sponsored by: Agency / Department

Contact: Course Coordinator

Phone: [Number]

Email: [Email address]