



GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
LANSING

ORLENE HAWKS
DIRECTOR

AGENDA
MICHIGAN FIRE FIGHTERS TRAINING COUNCIL REGULAR MEETING

Suburban Collection Showplace – Granite Conference Room
46100 Grand River Avenue, Novi, MI 48374
Tuesday, April 11, 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: February 14, 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. ICS 300 & 400 | Fire Marshal Sehlmeier |
| | b. "Courage to be Safe" | Bill Forbush |
| | c. Computer-based Testing | Fire Marshal Sehlmeier |
| VIII. | New Business: | |
| | a. Q Course Applications: | |
| | 1. Fire Behavior and Fire Dynamics: Understanding Fire, Ventilation, and the Structure to Operate Safer and Smarter (FMQ23-016) | Brad Drury |
| | 2. ASIST (Applied Suicide Intervention Skills Training) (FMQ23-017) | Lisa Clavier and Denise Shea |
| | 3. Live Fire Instruction (FMQ23-018) | Curtis Walters & Dan Kreft |
| | 4. Risk-Based Response to Battery Emergencies (FMQ23-019) | Gary Sharp |
| IX. | Public Comment | |
| X. | Council Comment | |
| XI. | Adjournment | |

Next Meeting:

Tuesday, June 13, 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, May 30, 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, February 14, 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

MEMBERS ABSENT:

Kyle Svoboda, Vice Chairperson, Michigan Fire Inspectors Society

BUREAU OF FIRE SERVICES STAFF PRESENT:

Macie Smith, Department Technician, Fire Fighter Training Division, Recording Secretary
Hollie Metts, Assistant to the State Fire Marshal
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
Jordyn Hanses, Student Assistant

OTHERS IN ATTENDANCE:

Terry Blackmer, Port Huron Fire Department
Josh Mosher, Midland Fire Department
Mark Cleveland, Egelston Township Fire Department
Jeromy Robertson, Van Buren Tech Regional Training Center
Nate House, Delta Twp. Fire Department
Mark Fankhauser, Grand Rapids Fire Department
Dave Dekorte, Dewitt Township Fire Department
Robert Ginther, Beverly Hills Department of Public Safety
Bill Forbush, National Fallen Firefighters Foundation/Everyone Goes Home State Advocate
Wendy Galbreath, Michigan State Police, Hazmat Training Unit
Jeffrey Latkowski, West Bloomfield Fire Department
John Cieslik, Rochester Fire Department

I. CALL TO ORDER AND DETERMINATION OF QUORUM:

Chairperson Stokes called the regular meeting to order at 1:30 pm. A moment of silence was observed for the tragic events that occurred at Michigan State University on February 13, 2023. Roll call was taken by recording secretary, Macie Smith. A quorum was present.

II. REVIEW AND APPROVAL OF AGENDA:

23-02-01

A **MOTION** was made by **Councilperson Feichtner** and seconded by **Councilperson Blomstrom** to approve the February 14, 2023 regular meeting agenda as presented. **MOTION CARRIED.**

III. REVIEW AND APPROVAL OF MINUTES:

Regarding the meeting attendance, Councilperson Blomstrom commented there were many others in attendance however, they may not have signed in.

23-02-02

A **MOTION** was made by **Councilperson Richardson** and seconded by **Councilperson Schehr** to approve the December 2, 2022 regular meeting minutes as presented. **MOTION CARRIED.**

IV. COMMUNICATIONS:

None

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. He noted the challenge codes were removed from the report and that there were a few Instructor II students who failed the practical exam. He further explained Instructor II students must be proficient in all categories to pass. Per the Rules, an Instructor II student who fails either the written or practical exam twice must retake the course.
- b) **Fire Instructor III:** Fire Marshal Sehlmeier shared the bureau is currently developing the Fire Instructor III curriculum and is working on the JPRs. The bureau recently sent out a survey requesting input for topics that the Fire Instructor III students will use to develop a four-hour course. The survey will remain open until February 23, 2023.
- c) **NFIRS Non-Reporting Departments in 2022:** Fire Marshal Sehlmeier advised there were 85 departments that did not submit fire reports in 2022. These non-reporting departments are not eligible to use Fireworks Safety Fees for training until they become compliant. To clarify, Councilperson Beeson asked if just the non-reporting department is ineligible or if the entire county is ineligible to use the funding. Fire Marshal Sehlmeier confirmed only the non-reporting department is ineligible. He further stated a list of the 2022 non-reporting departments would be shared with council.
- d) **County Training Committees:**
 - i. **Annual Elections:** Fire Marshal Sehlmeier reminded all in attendance that County Training Committees (CTCs) shall hold an annual election to select a chairperson by April 1, 2023. Following the election, the CTC shall notify the bureau of the selected chairperson by submitting a BFS-240 form. He also noted the selected chairperson will serve a one-year term beginning April 1, 2023 through March 31, 2024 and that the current CTC chairperson may be reelected. For more information, refer to the memo dated February 1, 2023.

- ii. **List of Allocated Funding:** Fire Marshal Sehlmeier shared there were 24 counties that did not provide the bureau with a list of scheduled courses and allocated funding amounts as requested by January 15, 2023.
- e) **FY23 Courses Funded with Returned Fireworks Funds:** Fire Marshal Sehlmeier advised that on January 1, 2023, all unencumbered fireworks safety funds were transferred back to the MFFTC's account. To date, the bureau has used the returned unencumbered funding (\$61,355) to fund a total of 18 courses (13 certification for \$51,005 and 5 mental health courses for \$10,350) as directed by council (Motion #22-12-05). A breakdown of the FY23 courses funded with returned fireworks funds was provided to council in their meeting packet.
- f) **SMOKE Enhancements:** Fire Marshal Sehlmeier shared that staff continue to work on improvements in the SMOKE system. The most recent SMOKE enhancements include an exam eligible letter for Fire Officer I-III students and an electronic application process for Certified Instructor II. Course closure/finalization reminders to course managers are expected to go live soon.
- g) **Upcoming Youth Firesetter Courses:** Fire Marshal Sehlmeier shared there are two youth firesetter (YFS) courses scheduled in April: 1) YFS Intervention Specialist on April 19-20, 2023 and 2) YFS Program Manager on April 25-26, 2023. Both courses will be held in Waterford, MI and must have 15 students signed up 45 days in advance to run the course. If the courses are not filled, we will lose the funding and the courses will be cancelled due to lack of participation.
- h) **Fatal Fire Update:** As of February 9, 2023, there were 18 fire deaths in 18 fires. This is a 0% decrease in deaths and a 19% increase in fires based on the 2017-2022 average.
- i) **Introduce Bill Forbush:** Fire Marshal Sehlmeier introduced Bill Forbush, Michigan State Lead Advocate for the National Fallen Firefighters Foundation (NFFF) Everyone Goes Home (EGH) program.

VI. CURRICULUM COMMITTEE UPDATE:

Councilperson Blomstrom shared the Curriculum Committee met on February 9, 2023 to update the Instructor I and Instructor II exams.

VII. OLD BUSINESS:

a. Q Course Applications:

RIC for the Rural Department (**FMQ22-027**)

Instructor: Brandon Cory / Phone: 906-250-7822

23-02-03

A **MOTION** was made by **Councilperson Corradi** and seconded by **Councilperson Schehr** to **approve** Q Course application **FMQ22-027. MOTION CARRIED.**

- b. **Computer-Based Testing:** Fire Marshal Sehlmeier stated the bureau continues to look at options. With most platforms we have found, to get the testing option, we would have to purchase the learning management platform as well. The bureau also is also looking into the possibility of doing online testing through SMOKE.

VIII. NEW BUSINESS:

- a. **Revisions to the 2023 MFFTC Meeting Schedule:** Councilperson Corradi noted the next Michigan Fire Fighters Training Council (MFFTC) regular meeting is scheduled for April 11, 2023, which is the same day as the Michigan Association of Fire Chiefs (MAFC) Conference.

He proposed moving the April 11, 2023 MFFTC meeting to Novi to be held in conjunction with the MAFC Conference. If council agrees to relocate, he confirmed the MAFC can accommodate the meeting and would make changes to the conference schedule to avoid conflicts.

23-02-04

A **MOTION** was made by **Councilperson Corradi** and seconded by **Councilperson Feichtner** to relocate the April 11, 2023 MFFTC regular meeting to the MAFC Conference in Novi, MI.

MOTION CARRIED.

Fire Marshal Sehlmeier noted due to a scheduling conflict at the Delta Twp. Fire Department, the MFFTC regular meeting on August 8, 2023 must also be relocated. Fire Marshal Sehlmeier has discussed with Chairperson Stokes the possibility of moving the meeting to Detroit. If council agrees, Chairperson Stokes confirmed that they could accommodate the meeting.

23-02-05

A **MOTION** was made by **Fire Marshal Sehlmeier** and seconded by **Chairperson Stokes** to relocate the August 8, 2023 MFFTC regular meeting to the Detroit Public Safety Headquarters in Detroit, MI. **MOTION CARRIED.**

- b. **ICS 300 & 400 Discussion:** Council discussed some issues with ICS 300 and 400. Specifically, confusion with the registration process (some students are only registering in SMOKE instead of also registering in MI-Train) and the limited number of instructors eligible to teach (there are currently 11 fire instructors, per FEMA's instructor list). The possibility of letting the Michigan State Police Emergency Management Homeland Security Division take over management of ICS 300 & 400 was mentioned to streamline registration and oversight of instructors. Discussion to be continued at the April 11, 2023 meeting.
- c. **Courage To Be Safe (CTBS) Overview:** Bill Forbush, NFFF EGH Michigan State Lead Advocate, addressed council and provided a packet for review. He shared some background information on the NFFF and further discussed the CTBS program specifically focusing on the first Life Safety Initiative, Cultural Change. With an average of 119 line of duty deaths per year, he stated a cultural change is needed in the fire service and suggested adding the CTBS program (in-person program preferred) as a requirement for any Firefighter I course in Michigan. Council discussed the proposal. Councilperson Blomstrom referenced Section 29.369 of the Fire Fighters Training Council Act, which discusses how an individual obtains a Firefighter I & II certification. He questioned whether a specific course could be required for firefighter certifications. Fire Marshal Sehlmeier referenced R29.407 of the Fire Fighters Training Council General Rules, which discusses in-service training programs. Councilperson Blomstrom requested the Fire Marshal seek a legal option on the matter before council moves forward with a decision.
- d. **Q Course Applications:**
 - 1. Trunk Functions School (**FMQ23-001**), Instructor: Robert Blasetti, Phone: 239-810-1176
 - 2. The Impact of Mental Health and Psychological Disorders on First Responders (**FMQ23-002**), Instructor: Dr. Stephanie Zoltowski-Siordia, Phone: 248-763-8633
 - 3. First Responders and Implicit Bias (**FMQ23-003**), Instructor: Dr. Stephanie Zoltowski-Siordia, Phone: 248-763-8633
 - 4. Lines Over Ladders (**FMQ23-004**), Instructor: Robert Blasetti, Phone: 239-810-1176
 - 5. Great Lakes H.O.T. (**FMQ23-005**), Instructor: Sean Duffy, Phone: 813-380-1433
 - 6. Alternative Fuel Vehicle Response (**FMQ23-006**), Instructor: Robert Blasetti, Phone: 239-810-1176

7. Trench Rescue Awareness (**FMQ23-007**), Instructor: John Cieslik, Phone: 248-854-1170
8. SCBA Refresher (**FMQ23-008**), Instructor: John Cieslik, Phone: 248-767-4270
9. Field Training Officer/Mentorship Program (**FMQ23-009**), Instructor: Nathan House, Phone: 989-714-8211
10. Blood Borne Pathogens (**FMQ23-010**), Instructor: John Cieslik, Phone: 248-767-4270
11. Strategies and Tactics for Effective Leadership (**FMQ23-011**), Instructor: Kevin S. Brame, Phone: 951-283-0498
12. De-Escalation and Critical Decision-Making for Fire and Rescue Personnel (**FMQ23-012**), Instructor: Bryan Pizzuti, Phone: 248-417-2563
13. New Blood-Infusion of Legacy (**FMQ23-013**), Instructor: Jeromy Robertson, Phone: 517-204-3294
14. OCC Crew and Self Rescue (**FMQ23-014**), Instructor: Nathaniel Herr, Phone: 248-232-4580
15. Active Shooter-Hostile Event Response and Management (**FMQ23-015**), Instructor: Adam Massingill, Phone: 734-265-7036

23-02-06

A **MOTION** was made by **Councilperson Blomstrom** and seconded by **Councilperson Richardson** to **approve** Q Course applications **FMQ23-001 through FMQ23-015. MOTION CARRIED.**

IX. PUBLIC COMMENT:

None

X. COUNCIL COMMENT:

- **Councilperson Feichtner** shared the MAFC is working with Michigan Professional Fire Fighters Union to develop a mental health program that will expand on day two of any fire academy class. A proposal will be brought to council when completed.
- **Councilperson Blomstrom:**
 - Inquired about the NFA course call. Fire Marshal Sehlmeier replied he could expect the course call to be done in March.
 - Also inquired about the process to request changes to curriculum. He noted some instructors would like to see a change in class size for Instructor I. Fire Marshal Sehlmeier replied they should submit a detailed letter explaining their concerns to the bureau for review and consideration.
- **Chairperson Stokes** commented on the recent tragic events that took place at Michigan State University. He encouraged everyone to be mindful and empathetic to the students, their families, and the first responders involved in the incident. He further stressed the importance of preparing our first responders for active assailant incidents.

XI. ADJOURNMENT:

23-02-07

A **MOTION** was made by **Councilperson Blomstrom** and seconded by **Councilperson Schehr** to **adjourn** the meeting. **MOTION CARRIED.** The meeting adjourned at 2:59 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

FMQ23-016

To add a seminar/course to be listed in SMOKE submit this form to the following email address: LARA-BFS-SMOKE@MICHIGAN.GOV for review. The request will be reviewed and forwarded to the Michigan Fire Fighter Training Council (MFFTC) for curriculum review at the next scheduled MFFTC meeting (all requests must be made at least 15 days prior to the next regularly scheduled meeting).

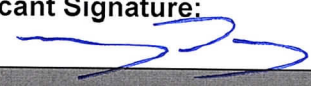
SECTION I

Name of Applicant: Brad Drury	SMOKE PIN: 591918	Date: 03/01/2023
Host Fire Department: Almira Township Fire & EMS Department		County: Benzie
Applicant Street Address: 3813 White Birch Dr.		
City: Grawn	State: MI	Zip Code: 49637
Applicant Phone Number: 517-290-0297		Email: brad.drury36@gmail.com
Alternate Number:		

SECTION II

Seminar/Course Name: Fire Behavior and Fire Dynamics: Understanding Fire, Ventilation, and the Structure to Operate Safer and Smarter.	
Instructor(s): Brad Drury	Instructor Phone Number: 517-290-0297
Instructor Email/URL: brad.drury36@gmail.com	Flyer Attached: <input checked="" type="checkbox"/>
Course Description: (Include course syllabus and detailed course expenses-you may attach additional pages if needed) This program will cover fire behavior and how fire wants to move throughout a structure. It will also cover the effects that ventilation has on fire behavior, as well as how fire behavior impacts the components of a structure. Understanding these effects will assist all fire personnel with tactical decisions, occupant survivability, structural stability, and resource needs at common structure fires. This program incorporates science based research for the decision making process. This program is geared towards firefighters, fire officers, and incident commanders.	
Applicable NFPA Standard(s): NFPA 1700 Chapters 4, 5, 6, 7, 9, 10, and 12	
Class Capacity: Based on facility	Total Hours of Training: 6 hours

SECTION III

Applicant Signature: 	Date: 03/01/2023	
BFS USE ONLY		
Date Approved by MFFTC:	"Q" Course Number Assigned:	Date Course Catalog Updated:

FIRE BEHAVIOR AND FIRE DYNAMICS: Understanding Fire, Ventilation, and the Structure to Operate Safer and Smarter.

Brad Drury

brad.drury36@gmail.com

Cell: 517-290-0297

Course Description: This program is designed for the real-world application of fire behavior and fire dynamics. This course will cover fire behavior and how fire wants to move throughout a structure. It will also cover the effects that ventilation has on fire behavior, as well as how fire behavior impacts the components of a structure. Understanding these effects will assist all fire personnel with tactical decisions, occupant survivability, structural stability, and resource needs at common structure fires. Application of science-based research by the UL Fire Safety Research Institute will be discussed as well as NFPA 1700. This class is geared toward firefighters, fire officers, and incident commanders.

Instructional Method: Lecture with small demonstrations and interactive discussion with students.

Prerequisites: For all fire service members, Firefighter I is recommended.

Objectives:

- Explain Fire and Fire Chemistry
- Discuss the characteristics of different fuels
- Explain flame spread
 - Conduction
 - Convection
 - Radiation
 - Heat Release Rate
- Explain fire spread within a compartment
- Explain fire spread to other areas within and to the exterior of the structure
- Review basic residential building construction
- Discuss fire behavior and its effects on a structure
- Understand the types of fire flow
- Identify strengths and weaknesses of a structure
- Discuss ventilation and its effects during a fire
- Discuss UL research for strategic and tactic decisions
- Identify survivable spaces and rescue options
- Basic overview of NFPA 1700

FIRE BEHAVIOR AND FIRE DYNAMICS: Understanding Fire, Ventilation, and the Structure to Operate Safer and Smarter.

Brad Drury

brad.drury36@gmail.com

Cell: 517-290-0297

Course Fee and Expenses: The course fee will be a Maximum of \$1700.00

- 1,000.00 – 1,500.00 for the presentation of the developed program
- Travel expenses
 - Hotel accommodations if needed

FIRE BEHAVIOR AND FIRE DYNAMICS: Understanding Fire, Ventilation, and the Structure to Operate Safer and Smarter.

Brad Drury

brad.drury36@gmail.com

Cell: 517-290-0297

Course Description: This program is designed for the real-world application of fire behavior and fire dynamics. This course will cover fire behavior and how fire wants to move throughout a structure. It will also cover the effects that ventilation has on fire behavior, as well as how fire behavior impacts the components of a structure. Understanding these effects will assist all fire personnel with tactical decisions, occupant survivability, structural stability, and resource needs at common structure fires. Application of science-based research by the UL Fire Safety Research Institute will be discussed as well as NFPA 1700. This class is geared toward firefighters, fire officers, and incident commanders.

Instructional Method: Lecture with small demonstrations and interactive discussion with students.

Prerequisites: For all fire service members, Firefighter I is recommended.

Objectives:

- Explain Fire and Fire Chemistry
- Discuss the characteristics of different fuels
- Explain flame spread
 - Conduction
 - Convection
 - Radiation
 - Heat Release Rate
- Explain fire spread within a compartment
- Explain fire spread to other areas within and to the exterior of the structure
- Review basic residential building construction
- Discuss fire behavior and its effects on a structure
- Understand the types of fire flow
- Identify strengths and weaknesses of a structure
- Discuss ventilation and its effects during a fire
- Discuss UL research for strategic and tactic decisions
- Identify survivable spaces and rescue options
- Basic overview of NFPA 1700

FIRE BEHAVIOR AND FIRE DYNAMICS: Understanding Fire, Ventilation, and the
Structure to Operate Safer and Smarter.

Brad Drury

brad.drury36@gmail.com

Cell: 517-290-0297

Course Fee and Expenses: The course fee will be a Maximum of \$1700.00

- 1,000.00 – 1,500.00 for the presentation of the developed program
- Travel expenses
 - Hotel accommodations if needed



Fire Behavior and Fire Dynamics: Understanding Fire, Ventilation, and the Structure to Operate Safer and Smarter.

This program will cover fire behavior and how fire wants to move throughout a structure. It will also cover the effects that ventilation has on fire behavior, as well as how fire behavior impacts the components of a structure. Understanding these effects will assist all fire personnel with tactical decisions, occupant survivability, structural stability, and resource needs at common structure fires. This program is geared toward firefighters, fire officers, and incident commanders.

Chief Brad Drury is the current Chief of the Almira Township Fire & EMS Department. Chief Drury has 34 years in the fire service in Michigan. He retired as Assistant Chief/Fire Marshal from the Delhi Township Fire Department in 2021 to his current position. Chief Drury also retired from the Lansing Fire Department in 2014 as the City's Fire Marshal.

Chief Drury has a Bachelor's Degree in Public Safety and has attended Texas A&M's Fire Service Chief Executive Officer program. Currently, he teaches for the Michigan State Police Fire Investigation School and is a Blue Card Incident Command Instructor. He formerly was an instructor with the Lansing Community College.

Date: 2-25-23
Time: 9 am -class is approximately 6 hours long
Location: St. Louis City Hall
300 N Mill St
St. Louis MI 48880



"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

FMQ23-017

To add a seminar/course to be listed in SMOKE submit this form to the following email address: LARA-BFS-SMOKE@MICHIGAN.GOV for review. The request will be reviewed and forwarded to the Michigan Fire Fighter Training Council (MFFTC) for curriculum review at the next scheduled MFFTC meeting (all requests must be made at least 15 days prior to the next regularly scheduled meeting).

SECTION I

Name of Applicant:		SMOKE PIN:	Date:
Host Fire Department:			County:
Applicant Street Address:			
City:	State:	Zip Code:	Email:
Applicant Phone Number:		Alternate Number:	

SECTION II

Seminar/Course Name:	
Instructor(s):	Instructor Phone Number:
Instructor Email/URL:	Flyer Attached:
Course Description: (Include course syllabus and detailed course expenses-you may attach additional pages if needed)	
Applicable NFPA Standard(s):	
Class Capacity:	Total Hours of Training:

SECTION III

Applicant Signature:		Date:
BFS USE ONLY		
Date Approved by MFFTC:	"Q" Course Number Assigned:	Date Course Catalog Updated:

Applied Suicide Intervention Skills Training (ASIST)

ASIST is a two-day interactive workshop in suicide first-aid. ASIST teaches participants to recognize when someone may have thoughts of suicide and work with them to create a plan that will support their immediate safety. Although ASIST is widely used by healthcare providers, participants don't need any formal training to attend the workshop—ASIST can be learned and used by anyone.

ASIST makes a difference

As the world's leading suicide intervention workshop, LivingWorks' ASIST program is supported by numerous evaluations including independent and peer-reviewed studies. Results demonstrate that ASIST helps participants become more willing, ready, and able to intervene with someone who has thoughts of suicide.

ASIST is also proven to reduce suicidality for those with thoughts of suicide. A 2013 study that monitored over 1,500 suicidal callers to crisis lines found that callers who spoke with ASIST-trained counselors were 74% less likely to be suicidal after the call, compared to callers who spoke with counselors trained in methods other than ASIST. Callers were also less overwhelmed, less depressed, and more hopeful after speaking with ASIST-trained counselors.

FOCUS: Suicide intervention training

DURATION: Two days (15 hours)

PARTICIPANTS: Anyone 16 or older

TRAINERS: Two registered trainers per 15–30 participants

LANGUAGES: English, French, Inuktitut, and Norwegian

Goals and objectives

In the course of the two-day workshop, ASIST participants learn to:

- Understand the ways personal and societal attitudes affect views on suicide and interventions
- Provide guidance and suicide first-aid to a person with thoughts of suicide in ways that meet their individual safety needs
- Identify the key elements of an effective suicide safety plan and the actions required to implement it
- Appreciate the value of improving and integrating suicide prevention resources in the community at large
- Recognize other important aspects of suicide prevention including life-promotion and self-care

ASIST trainers

ASIST workshops are facilitated by a minimum of two registered trainers who have completed a five-day

Training for Trainers (T4T) course. ASIST trainers come from diverse backgrounds, but they must all deliver regular workshops and participate in a rigorous quality control program to remain registered. For information about trainers in your area, email info@livingworks.net. A listing of upcoming workshops is available at www.livingworks.net under the Our Trainings tab, "Find a Training."

ASIST participants

ASIST is a resource for the whole community. It helps people apply suicide first-aid in many settings: with family, friends, co-workers, and teammates, as well as formal caregiving roles. Many organizations have incorporated ASIST into professional development for their employees. Its widespread use in various communities creates a common language to understand suicide safety issues and communicate across different organizational backgrounds.



Workshop Process

ASIST is based on adult learning principles. Valuing participants' contributions and experiences, it encourages them to take an active role in the learning process. ASIST's key features include:

Small-group learning	To facilitate involvement, participants spend over half the workshop in a small group with one of the trainers.
Audiovisual aid	High-quality slides, diagrams, and videos help participants understand and memorize concepts.
Training focus	Some participants may have previous personal or professional experience with suicide or intervention. ASIST builds on these experiences to contribute to the overall learning goal—providing suicide first-aid.
Reliable, proven model	Workshop activities are structured around the ASIST intervention model and provide applicable, hands-on skills practice.
Emphasis on individual needs	Participants learn to adapt to the specific circumstances of a person with thoughts of suicide and work collaboratively to help them stay safe.
Perspective matters	Participants are encouraged to reflect on and share their own attitudes about suicide and suicide intervention. This helps them understand how their perspectives may affect their role in providing help to a person with thoughts of suicide.
Direct approach	By encouraging honest, open, and direct talk about suicide, ASIST helps prepare to discuss the topic with a person with thoughts of suicide.
Adaptable components	ASIST trainers can tailor certain features of the program, such as role-playing activities, to meet participants' professional or cultural needs.



11

Updated editions since 1983
for continued growth
and improvement



6,300+

ASIST trainers offer work-
shops in over 30 countries

1,430,000+

people have taken
ASIST worldwide

I use ASIST in virtually
every crisis situation,
volunteer and work...
Thank you for this
life-changing program.

—ASIST participant

*Statistics current as of March, 2018

About LivingWorks: LivingWorks is dedicated to saving lives through the creation, development, and delivery of innovative training experiences that empower individuals, organizations, and communities to be safer from suicide. To learn more, visit www.livingworks.net.



LIVINGWORKS



"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

FMQ23-018

To add a seminar/course to be listed in SMOKE submit this form to the following email address: LARA-BFS-SMOKE@MICHIGAN.GOV for review. The request will be reviewed and forwarded to the Michigan Fire Fighter Training Council (MFFTC) for curriculum review at the next scheduled MFFTC meeting (all requests must be made at least 15 days prior to the next regularly scheduled meeting).

SECTION I

Name of Applicant:			SMOKE PIN:	Date:
Host Fire Department:			County:	
Applicant Street Address:				
City:	State:	Zip Code:	Email:	
Applicant Phone Number:			Alternate Number:	

SECTION II

Seminar/Course Name:	
Instructor(s):	Instructor Phone Number:
Instructor Email:	Flyer Attached: <input type="checkbox"/>
Course Description: (Include course syllabus and detailed course expenses-you may attach additional pages if needed)	
Applicable NFPA Standard(s):	

Class Capacity:	Total Hours of Training:	Amount Requested:
-----------------	--------------------------	-------------------

SECTION III

Applicant Signature:	Date:
----------------------	-------

BFS USE ONLY

Date Approved by MFFTC:	"Q" Course Number Assigned:	Date Course Catalog Updated:
-------------------------	-----------------------------	------------------------------



NORTHWEST REGIONAL TRAINING CENTER

Live Fire Training

Course Description: To provide live fire instruction to area firefighters and adhere to NFPA 1403 standard in a controlled environment. Also, to provide education on incident safety, accountability, and command structure.

Course Objectives:

- Provide a safe training environment.
- Provide medical evaluation of participants and instructors.
- Provide safety instruction and facility familiarization.
- Provide instruction on safe and effective hose line management.
- Provide fire behavior instruction.
- Provide safe rehabilitation for all participants.
- Provide ICS familiarization.

Dates: Available by Scheduling – email info@nwrtec-tc.org for scheduling

Time: 4 hours (0800-1200 or 1300-1700)

Location:

Northwest Regional Training Center

3737 Nimrod Rd, TC MI 49685

Instructor: Curtis Walters or AHJ Approved Instructor

NFPA Standards:

- NFPA 1001 Standard for Fire Fighter Professional Qualifications
- NFPA 1021 Standard for Fire Officer Professional Qualifications
- NFPA 1403 Standard for Live Fire Training Evolutions
- NFPA 1500 Standard on Fire Department Occupational Safety, Health, and Wellness Program
- NFPA 1584 Standard on the Rehabilitation Process for Members During Emergency Operation and Training Exercise.



"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

FMQ23-019

To add a seminar/course to be listed in SMOKE submit this form to the following email address: LARA-BFS-SMOKE@MICHIGAN.GOV for review. The request will be reviewed and forwarded to the Michigan Fire Fighter Training Council (MFFTC) for curriculum review at the next scheduled MFFTC meeting (all requests must be made at least 15 days prior to the next regularly scheduled meeting).

SECTION I

Name of Applicant: Gary Sharp	SMOKE PIN:	Date: 01-04-2023
Host Fire Department: Varies	County: Varies	
Applicant Street Address: 419 Golf View Lane #128		
City: Rochester Hills	State: MI	Zip Code: 48309
Applicant Phone Number: 248-238-8509		Email: gary@hazard3.com
Alternate Number: info@hazard3.com		

SECTION II

Seminar/Course Name: Risk-Based Response to Battery Emergencies	
Instructor(s): Hazard3 staff	Instructor Phone Number: 248-238-8509
Instructor Email/URL: www.hazard3.com	Flyer Attached: <input checked="" type="checkbox"/>

Course Description: (Include course syllabus and detailed course expenses-you may attach additional pages if needed)

This 8-hour course includes classroom and hands-on training to prepare responders to conduct a risk-based response to battery emergencies for multiple types of batteries including Lithium-Ion (Li-Ion). The course covers batteries found in transportation including passenger vehicles, ground transport, air and sea shipping, as well as residential, commercial, and industrial settings.

The cost is \$5,950 per day for 30 students. This all-inclusive price covers the course fee, instructor, travel, consumables (including batteries), Cellblock class D agent, DDR overpack, and waterproof printed field guides for each student.

Applicable NFPA Standard(s):

NFPA 470, NFPA 855

Class Capacity: 30

Total Hours of Training: 8

SECTION III

Applicant Signature: 	Date: 1-4-23
--	------------------------

BFS USE ONLY

Date Approved by MFFTC:	"Q" Course Number Assigned:	Date Course Catalog Updated:
--------------------------------	------------------------------------	-------------------------------------



Course Syllabus

Understanding Batteries and their Hazards

- Introductions and facility orientation
- Types of batteries and overview of hazards
 - Primary and secondary batteries
- Battery construction including cells, modules, bricks, and battery management system

Skill Station: Constructing a battery cell

- Understanding volts and amp hours
- Parallel and series battery modules

Skill Station: Hands-on battery module construction

- Understanding and calculating watt hours
- Shock hazards for Direct Current (DC) and OSHA hazard levels

Skill Station: Calculating watt hours

- PPE for battery emergencies including protection from DC energy

Primary Batteries

Primary Alkaline Batteries

- Overview and construction
- Corrosive electrolytes
- Battery ruptures
- Fire hazards
- Disposal

Primary Lithium Metal Batteries (LMB)

- Overview, recognition, and common uses
- Chemistry
- Response considerations
- Air monitoring
- Fire suppression considerations (Water vs Class D Agents)
 - Class D agent selection

Tabletop Scenario: Primary battery transportation fire – DOT Class 9 mixed load

Button Batteries

- Introduction
- Ingestion hazards

Skill Station: Button battery toxicity



Secondary Batteries

Lead Acid Batteries

- Overview, recognition, and common uses
- Chemistry and construction
- Failure modes and common incidents
- Response considerations
- Battery specific air monitoring
- Neutralizing acid spills

Skill Station: Neutralization of battery acid or hydrolysis experiment

Nickel Based Batteries

- Overview, recognition, and common uses
- Chemistry and construction
- Response considerations
- Air monitoring

Tabletop Scenario: Highway transportation spill (DOT Class 8)

Secondary Lithium-Ion Batteries

Lithium-Ion (Li-Ion) Batteries

- Overview, recognition, and common uses
- Construction and chemistry
 - Li-Ion electrolytes
- Understanding thermal run-away including causes
 - Interrupting thermal runaway
- Air monitoring
- Lithium-ion containment vessels
 - LIBIK bags
 - DOT approved drums with Class D agent
- Response considerations
 - Flammable environments from electrolyte venting
 - Size up: Single cell vs multi-module failure
 - Overpacking unstable Li-Ion battery cells



Lithium-Ion Battery Response Considerations

Response Considerations: Consumer Electronics and Personal Mobility Devices

- Overview, construction, and hazards
- Incident case studies
- Response considerations

Response Considerations: Electric Vehicles

- Overview, construction, and hazards
- Vehicle fire case studies
- Response considerations
- Technical information on EV
 - ISO 17840 standard
- Case studies: EV crash with loose battery cells

Response Considerations: Energy Storage Systems (ESS)

- Overview, construction, and hazards
- Case study: Standish, Michigan
- Case study: Surprise, Arizona
- Response considerations

Tabletop scenario: ESS fire

Hands-On Practical Evolutions

Practical Evolution: Battery recognition and thermal imaging

Practical Evolution: Overpacking damaging batteries into a battery containment drum

Practical Evolution: Lithium-Ion Incident Response Kit (LIBIK)

Quiz / Evaluations

- Final written quiz
- Course evaluations
- Questions and hot wash



RISK-BASED RESPONSE TO BATTERY EMERGENCIES

Instructor Biographies

Gary Sharp

Gary Sharp is the co-founder of Hazard3. Previously Gary served as the Director of Training and First Responders Solutions for a defense and homeland security contractor and as a career Deputy Fire Chief. Gary is a member of the NFPA Hazardous Materials Technical Committee and is addicted to Starbucks.

Dr. Christina Baxter

Dr. Christina Baxter is the co-founder of Hazard3. Prior to forming Hazard3 Dr. Baxter was the CBRNE Program Manager for the Department of Defense's Combating Terrorism Technical Support Office where she was responsible for developing and fielding next generation capabilities for the CBRNE response elements.

Dr. Baxter holds a Ph.D. in Analytical Chemistry from the Georgia Institute of Technology. She has over 25 years of experience in the hazardous materials/CBRN response community where she remains active in teaching and participating in standards development processes.

Ray Haring

Ray Haring is a lead instructor with Hazard3. Ray has over 23 years of experience as a Regional Hazardous Materials Response Officer with the Virginia Department of Emergency Management (VDEM), Region 5. Region 5 serves over 14 counties and towns in populated areas near industrial, shipping, and military centers throughout Virginia's Tidewater area. Haring directed emergency response for the teams and agencies within this response area including responding to numerous large scale and complex HazMat incidents.

Adam Lynch

Adam Lynch is a lead instructor with Hazard3. Adam currently serves as a Lieutenant with the Fire Department of New York (FDNY). He's assigned to Engine 250/HazMat Tech Unit 250 and teaches at the FDNY HazMat school.

RISK-BASED RESPONSE TO BATTERY EMERGENCIES

8-Hour On-Site Instructor Led Training

BOOK YOUR COURSE
FOR BETTER RESPONSE

COURSE TOPICS

- Battery construction and chemistry
- Recognition and identification
- Understanding direct current (DC)
- Battery hazard and risk assessment
- Recognizing and responding to thermal runaway
- Response considerations
- Air monitoring
- Battery fire strategy and tactics

COURSE DESCRIPTION

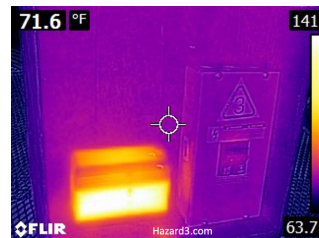
This 8-hour course includes classroom and hands-on training to prepare responders to conduct risk-based response to battery emergencies for multiple types of batteries including Lithium-Ion (Li-Ion).

The course covers batteries found in transportation including passenger vehicles, ground transport, air and sea shipping, as well as residential, commercial, and industrial settings.

ER-PLAYBOOK
EMERGENCY RESPONSE

HAZARD3 training courses including on-site, virtual instructor led training (VILT), and microlearning are supported by our Emergency Response Playbook guides.

Attendees will receive Technical Guides and/or Equipment Guides to serve as job-aids during a risk-based response.



Training includes hands-on battery assessment, power shut down, and mitigation using Hazard3 props.

PRESENTED BY

SAFWARE
CONTRACT SOLUTIONS FOR AMERICA'S HEROES | SINCE 1979



safewareinc.com | hazard3.com