



LIVE FIRE TRAINING OPERATIONS COURSE

COURSE DESCRIPTION

NFPA 1403, *Standard on Live Fire Training Evolutions* involves specific requirements for pre-requisite training, evolution planning, development, implementation, supervision and management oversight, monitoring, and records management of live fire training evolutions in acquired structures, training center burn buildings, and a variety of types of exterior fire evolutions.

This course will provide students with an introduction to the necessary knowledge and tools to properly prepare and conduct live fire training evolutions. The course includes an in-depth analysis of NFPA 1403, addressing evolutions at acquired structures; gas-fired training buildings; non-gas-fired training buildings; and exterior props, vehicle fires, and exterior class B fires.

The course is broken up into three parts and must consist of a minimum of twenty-four (24) course hours. The first part of the training contains extensive classroom activities, including scenario-based learning, group problem-solving / planning, and lecture, culminating in a written examination. The second and third parts of the training include a live fire training practical, where students can put into practice the knowledge learned during the classroom portion of the course. The course concludes with a post-evolution debriefing. The combination of classroom and practical activities allows participants to apply the knowledge of the applicable standards to live fire training activities.

PRE-REQUISITES

1. Student shall hold a valid fire instructor certificate that is in good standing, issued under Chapter 4765-21 of the Ohio Administrative Code (O.A.C.).
2. Student shall have an agency sponsor and shall provide a letter signed by the student's chief and / or training officer approving the student's participation in the course.
3. Student shall have successfully completed IS 700 and IS / ICS 100 and ICS 200.

CERTIFICATION

Successful course completion fulfills the live fire training course requirement for fire instructors and assistant fire instructors as set forth in O.A.C. rules 4765-21-03(C), 4765-21-05(J), 4765-21-07(B), 4765-21-08(B), and 4765-21-12(E). Students successfully completing the course will be eligible to receive an Ohio Live Fire Instructor course completion certificate from a Chartered Fire Training Program. A copy of this certificate shall be placed in the fire charter course / student files.

CONTACT TIME

Lecture (Face-to-Face): 8 hours

Live fire training practical activities: 16 hours

ATTENDANCE POLICY

100% attendance required with no make-up opportunities

ADDITIONAL MATERIALS

- Textbook: *Live Fire Training Principles and Practice*, Jones & Bartlett Learning
- Provided by instructors
 - Case histories
 - NIOSH reports
 - Course Evaluation Form
 - NFPA 1403 Forms
 - Water Supply Calculator
 - OEMS Fire Charter Training Facilities - Live Fire Training Structures and Props Capabilities Summary spreadsheet
 - NFPA Report - U.S. Firefighter Deaths Related to Training, 2001-2010

COURSE OBJECTIVES

Students shall be provided with:

- Information on the history of live fire training evolutions
- Review of live fire training evolution incidents
- Information on live fire training legal considerations
- Information on preparation and training of live fire evolution instructors
- Pre-requisites to becoming a live fire training instructor
- Comprehensive review of the fundamental elements of the NFPA 1403, *Standard on Live Fire Training Evolutions*, including how to use NFPA 1403
- An understanding of the impact of NFPA 1403 on live fire training
- Information on the effects of live fire training on firefighter physiology
- The fundamental elements of planning for live fire training
- Information on live burn evolutions in acquired structures
- Information on live burn evolutions in gas-fired and non-gas-fired structures
- Information on nonstructural training props

COURSE CONTENT

DAY ONE - CLASSROOM

Module 1 – NFPA 1403 Chapters 1, 2, and 3	1.5 hours
• Introduction and overview	
Module 2 – NFPA 1403 Chapter 4	2.5 hours
• General	
Module 3 – NFPA 1403 Chapters 5, 6, 7, and 8	2.0 hours
• Acquired structures	
• Gas-Fired live fire training structures	
• Non-Gas-Fired live fire training structures	
• Exterior live fire training props	
Module 4 – NFPA 1403 Chapter 9 and Annexes	1.0 hours
• Reports and records	
• Annex A – Explanatory Materials	
• Annex B – Live Fire Evolution Sample Checklist	
• Annex C – Responsibilities of Personnel	
• Annex D – Heat Exhaustion and Heat Stroke in Training	
• Annex E – Informational Resources	
Module 5 – Post-Test	1.0 hours

DAY TWO (or DAY THREE) – LIVE FIRE TRAINING STRUCTURES AND PROPS (Burn facility)

8.0 hours

Module 6 – Live fire training structure hands-on training	
• Review positions and responsibilities	
○ Instructor-in-Charge	
○ Safety Officer	
○ Instructor	
○ Fire Control Team (Ignition Officer and Observer)	
• AHJ (Chartered Organization) review of standard operating procedures for all positions and props	
• If time permits	
○ Inspect props and complete safety checks	
○ Set-up and preparation	
○ Assign positions and rotations	
○ Perform live fire evolutions per SOP of facility	
• Gas-Fired structures	
• Non-Gas-Fired structures	
• Exterior live fire props	

DAY THREE (or DAY TWO) – ACQUIRED STRUCTURE PRE-PLAN (at acquired structure and classroom) 8.0 hours

Module 7 – Acquired structures pre-plan overview and travel to acquired structure

On-site group preparation and data gathering

In classroom plan development

- Documents and permits required
- Tools, supplies, and equipment needed
- Hazard identification and mitigation
- Prop and aids development
- Order of proposed burns and burn box location / sizes
- Timeline for burn
- Water supply requirements
- Placement and location of apparatus and support staff needed
- Instructors needed

Presentation and evaluation of pre-plan by each group

Class debriefing and overall course evaluation

Each participant shall be required to complete the Ohio Division of EMS “Live Fire Training – Operations Level Positional Job Performance Requirement Check-Off Sheets,” under the auspices of a chartered fire training program, within twelve (12) months of completion of this course. A copy of the completed JPRs shall be kept in the fire charter course / student files.