



OHIO DEPARTMENT OF PUBLIC SAFETY
DIVISION OF EMERGENCY MEDICAL SERVICES

LIVE FIRE INSTRUCTOR COURSE PACKET

EFFECTIVE July 7, 2024

COURSE OVERVIEW

The Live Fire Instructor Training Program is composed of education standards approved and adopted by the State Board of Emergency Medical, Fire, and Transportation Services (EMFTS) and the Executive Director of the Division of EMS, with the advice and counsel of the Firefighter and Fire Safety Inspector Training Committee of the EMFTS Board.

The Live Fire Instructor Program for fire certificates to teach shall only be offered by an Ohio chartered fire training program authorized by the EMFTS Board and the Executive Director to teach Live Fire Instructor courses. The Live Fire Instructor Program shall be taught by an active Live Fire Instructor, who also holds active Fire and Emergency Services Instructor II and Firefighter II certifications, is appointed by the program director as a Live Fire Instructor Trainer, under the auspices of a chartered fire training program. The program director is responsible for ensuring compliance with all requirements set forth in chapter 4765-24 of the Ohio Administrative Code (OAC).

This is a competency-based training course with a minimum of 24 total hours. Live Fire Instructor Trainers, in consultation with the program director, shall determine when each student has met all of the job performance requirements (JPR) for completing the course. These evaluations shall be in writing and kept in the student/course files.

COURSE DESCRIPTION

NFPA 1041, “*Standard for Fire and Emergency Services Instructor Professional Qualifications*” intent is to ensure persons serving as Fire and Emergency Services Instructors and Live Fire Instructors are qualified. Chapter 7 specifically addresses the Live Fire Instructor qualification requirements, pre-live fire evolution and live fire evolution requisite knowledge and skills. Chapter 8 specifically addresses the Live Fire Instructor in Charge qualification requirements, pre-live fire evolution, live fire evolution, and post live fire requisite knowledge and skills.

All live fire training shall be conducted in accordance with NFPA 1403, “*Standard on Live Fire Training Evolutions*” which contains 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.

NOTE: All initial fire certification courses in Ohio, during live fire evolutions, are required to have a Live Fire Instructor directly involved in the teaching or evaluation of all students participating in live fire evolutions. Only an active Live Fire Instructor, who also holds active Fire and Emergency Services Instructor II and Firefighter II certifications, is permitted to serve as the Live Fire Instructor-in-Charge required in NFPA 1403 Live Fire evolutions (NFPA 1041, 7.1.1, 8.1.1). All Assistant Fire Instructors who hold active Live Fire Instructor certifications may continue to teach live fire training for certification. Assistant Fire Instructors may no longer be admitted into an Ohio Live Fire Instructor course. (See Admission Requirements)

This course includes NFPA 1041, Chapters 7 and 8, competencies, knowledge, and skills including detailed preparation and inspection of participant PPE and SCBA, fire growth stage prediction in a compartment, fuel load configurations, personnel accountability, and monitoring live fire participants. This course also includes an in-depth analysis of NFPA 1403, addressing live fire evolutions at acquired structures; gas-fired training buildings; non-gas-fired training buildings; exterior props, vehicle fires, and exterior class B fires.

DIVISION OF EMERGENCY MEDICAL SERVICES

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OHIO LIVE FIRE INSTRUCTOR CERTIFICATION REQUIREMENTS

STANDARD / DIRECTIVE	O.A.C. REFERENCE	COURSE ADMISSION REQUIREMENTS
N/A	4765-20-02	Students shall hold a valid Firefighter II certificate, issued under rule, is in good standing, and has been certified for at least 5 of the previous 7 years.
N/A	4765-21-03	Students shall hold a valid Fire and Emergency Services Instructor I or Fire and Emergency Services Instructor II-certificate that is in good standing, issued under rule.
NFPA 1001	1.3.10, 5.1	Students shall have successfully completed National Incident Management System IS 700, ICS 100 or online equivalent, and ICS 200.

OHIO LIVE FIRE INSTRUCTOR – CERTIFICATION REQUIREMENTS

STANDARD / DIRECTIVE	O.A.C. REFERENCE	QUALIFICATIONS FOR CERTIFICATION
N/A	4765-20-02 4765-21-03	Applicants shall hold a valid Firefighter II certificate that is in good standing. Applicants shall hold a valid Fire and Emergency Services Instructor I or Fire and Emergency Services Instructor II certificate that is in good standing, issued under rule.
NFPA 1403	4765-21-03 4765-24-02	Applicants shall complete the "Live Fire Instructor Course" through a chartered fire training program.
N/A	4765-21-03	Applicants shall submit a completed "Live Fire Instructor Initial Application" within 90 days after satisfying all course completion requirements of the "Live Fire Instructor Course" as attested to by the Fire Charter Program Director.

The Division of EMS has developed the "Live Burn Plan Packet" (EMS 1287) that may be used by Program Directors to assist in evaluating student JPRs. This document is located at <https://ems.ohio.gov/forms-and-applications/forms-and-applications>.

The Division of EMS does not endorse nor require any specific textbook to be used when teaching the Live Fire instructor course. The objective is to ensure students obtain the knowledge, skills, and abilities required to successfully demonstrate competency in all of the job performance requirements (JPRs) listed in this packet.

OHIO LIVE FIRE INSTRUCTOR – OBJECTIVES

NFPA 1041 Standard, Chapter 7 (2019)	Job Performance Requirements	Knowledge and Skills
7.1.1	For qualification at Live Fire Instructor, the candidate shall meet the requirements of Fire Fighter II as defined in NFPA 1001, the requirements of Fire and Emergency Services Instructor I as defined in Chapter 4, and the job performance requirements defined in 7.2 through 7.3 of this standard.	<u>Requisite Knowledge:</u> Ohio Firefighter II Certification Fire and Emergency Services Instructor I or II <u>Requisite Skills:</u> Ohio Firefighter II Certification Fire and Emergency Services Instructor I or II
7.1.2	A Live Fire Instructor shall demonstrate competency in knowledge and skills in all subjects, methods, and equipment being taught and the objectives contained in NFPA 1403 and identified for the live fire evolution	<u>Requisite Knowledge:</u> As identified in NFPA 1403 <u>Requisite Skills:</u> As identified in NFPA 1403
7.2.1	Pre-Live Fire Evolution: Inspect live fire participants' PPE and SCBA given participants and PPE and SCBA, so that equipment is determined to be serviceable and worn in accordance with manufacturer's instructions.	<u>Requisite Knowledge:</u> Manufacturers' instructions <u>Requisite Skills:</u> Visual inspection using an inspection checklist.
7.3.1	Live Fire Evolution: Predict stages of fire growth in a compartment, flow path, flashover, rollover, and backdraft given a live fire evolution, so that a safe environment is maintained.	<u>Requisite Knowledge:</u> Fire dynamics, including fuel load, fire growth, flow path, flashover, rollover, and backdraft. <u>Requisite Skills:</u> Configure fuel loads to meet objectives of the live fire evolution, recognize changing conditions of the live fire environment.
7.3.2	Live Fire Evolution: Supervise a group during a live fire evolution, given a live fire structure or prop and group of participants, so that instructional objectives are met, crew integrity is maintained, the instructor maintains a position to supervise the crew, fire conditions are monitored, and emergency actions are taken as necessary.	<u>Requisite Knowledge:</u> Group dynamics, instructor positioning, egress routes, fire dynamics, including fuel load, fire growth, flow path, flashover, rollover, and backdraft. <u>Requisite Skills:</u> Supervisory skills, fire suppression operations
7.3.3	Live Fire Evolution: Conduct a personnel accountability report (PAR) upon entering and exiting a live fire structure or prop, given a group of participants in a live fire evolution, so that all participants are accounted for and safety is ensured and maintained.	<u>Requisite Knowledge:</u> Knowledge of incident management system, AHJ personnel accountability procedures. <u>Requisite Skills:</u> Use of AHJ's accountability system, ability to recognize inadequacies in the use of the accountability system.

OHIO LIVE FIRE INSTRUCTOR – OBJECTIVES

NFPA 1041 Standard, Chapter 8 (2019)	Job Performance Requirements	Knowledge and Skills
7.3.4	Live Fire Evolution: Monitor live fire participants to safeguard participants, given a live fire evolution, so that signs and symptoms of fatigue and distress are recognized and action is taken to prevent injury	<u>Requisite Knowledge:</u> Signs and symptoms of fatigue and distress, knowledge of environmental conditions, AHJ safety, rehabilitation, and emergency procedures <u>Requisite Skills:</u> Evaluation of environmental conditions, class management, activation of AHJ emergency procedures.
8.2.1	Pre-Live Fire Evolution: Prepare a pre-burn plan in compliance with NFPA 1403, given the AHJ policy and procedures for live fire training evolutions, the facility policies applicable to evolutions, learning objectives, and all conditions affecting the evolution, so that learning objectives are developed, the plan meets all AHJ requirements, existing conditions are identified, and the plan meets the developed learning objectives.	<u>Requisite Knowledge:</u> NFPA 1403, components of learning objectives, AHJ and facility policies and procedures, hazards associated with live fire training, fuel packages, burn room size, ventilation strategies, time between sequential burn evolutions, evidence-based practices for fire control, and training procedures <u>Requisite Skills:</u> Learning objective development, technical writing, pre-burn plan development.
8.2.2	Pre-Live Fire Evolution: Conduct a pre-burn inspection of the structure or prop, given a structure or prop for live fire training, so that structural damage is identified, structural preparation is determined, and safety concerns are identified and addressed prior to the live fire evolution.	<u>Requisite Knowledge:</u> Facility requirements, structure or prop considerations <u>Requisite Skills:</u> Observation techniques, inspection and evaluation skills
8.2.3	Pre-Live Fire Evolution: Calculate the minimum water supply required for a live fire evolution in compliance with NFPA 1403, Section 4.12, given a structure or prop so that the required minimum water supply is determined.	<u>Requisite Knowledge:</u> NFPA 1403, fire flow calculations <u>Requisite Skills:</u> Calculation of water supply requirements, development of water supply documentation.
8.2.4	Pre-Live Fire Evolution: calculate the minimum water flow rate for a live fire evolution in compliance with NFPA 1403, Section 4.12, given a structure or prop so that the required minimum water flow application rate is determined	<u>Requisite Knowledge:</u> NFPA 1403, fire flow calculations, capacity of hose lines, fireground hydraulics. <u>Requisite Skills:</u> Calculation of minimum water flow application rate.

OHIO LIVE FIRE INSTRUCTOR – OBJECTIVES

NFPA 1041 Standard, Chapter 8 (2019)	Job Performance Requirements	Knowledge and Skills
8.3.1	Live Fire Evolution: Identify and assign instructional tasks and duties in compliance with NFPA 1403, given staffing assignments, learning objectives, and instructor capabilities, so that safety officer(s), ignition officer, and crew/functional lead(s) are designated and rotated through duty/assignments, instructor(s) implement participant accountability, proper instructor/student ratios are maintained, instructor(s) monitor and supervise all participants during evolutions, and awareness of changing conditions that impact training is maintained.	<u>Requisite Knowledge:</u> NFPA 1403, accountability procedures, supervisory techniques, and resource management. <u>Requisite Skills:</u> Coaching and observation techniques
8.3.2	Live Fire Evolution: Conduct a pre-burn briefing session, given the pre-burn plan, so that all facets of the evolution(s) are identified, training objectives are covered, a walk-through of the structure or prop with all participants is performed and established safeguards and emergency procedures are identified.	<u>Requisite Knowledge:</u> Pre-burn plan, safety rules, emergency procedures, and AHJ policy and procedures <u>Requisite Skills:</u> Presentation and class management skills.
8.3.3	Live Fire Evolution: Maintain the training environment to safeguard participants, given participants in a live fire training evolution, so that signs and symptoms of fatigue and distress are recognized, action is taken to prevent injuries, and actions are documented.	<u>Requisite Knowledge:</u> Signs and symptoms of fatigue and distress, knowledge of environmental conditions; AHJ's safety, rehabilitation, and emergency procedures Evaluation of environmental conditions, class management, report completion, activation of the AHJ's emergency procedures. <u>Requisite Skills:</u> None required.
8.4.1	Post-Live Fire Evolution: Conduct a post-burn briefing session, given the learning objectives of the evolution, so that feedback on each learning objective is provided to each participant, and any needed corrective actions are identified.	<u>Requisite Knowledge:</u> Pre-burn plan, learning objectives, supervisory techniques and AHJ policy and procedures <u>Requisite Skills:</u> Presentation skills, evaluation skills, class management skills.
8.4.2	Post-Live Fire Evolution: Conduct a post-burn inspection of the structure or prop, given a structure or prop for live fire training, so that structural damage is identified, safety concerns are identified, and necessary corrective actions are taken.	<u>Requisite Knowledge:</u> AHJ policies, facility requirements, safety practices. <u>Requisite Skills:</u> Observation techniques, inspection skills.
8.4.3	Post-Live Fire Evolution: Complete records and reports in accordance with NFPA 1403, given a live fire evolution, so that all required reports are completed.	<u>Requisite Knowledge:</u> NFPA 1403, AHJ policy on records. <u>Requisite Skills:</u> Technical writing and records completion