

**Colorado Division of Fire Prevention & Control**  
**Live Fire Training Evolutions – Fixed Facility Instructor I**  
**Job Performance Requirements (“JPRs”)**  
**(NFPA 1403, 2012 Edition)**

JPR #	Task	<b>Initial Certification JPR Requirement:</b> All JPRs are Mandatory  <b>Renewal JPR Requirement:</b> 100% of All JPRs <i>(including all subsections)</i>
1	Pre-Burn Plan	Mandatory
2	Pre-Burn Inspection	Mandatory
3	Pre-Burn Briefing	Mandatory
4	Instructor In Charge	Mandatory
5	Safety Officer	Mandatory
6	Exterior Props	Mandatory



# LIVE FIRE TRAINING EVOLUTIONS

## FIXED FACILITY INSTRUCTOR I

### JPR: LFI-1

Candidate: \_\_\_\_\_

<b>STANDARD:</b> 4.10.1, 4.10.2, 4.11.6, 4.13.1, 4.13.2, 4.13.3, 4.13.5, 4.15.1, 4.15.1.1, 4.15.8, 4.15.8.1  <b>NFPA 1403, 2012</b>	<b>Task:</b> Prior to conducting Live Fire Training a Preburn Plan shall be developed.	
<b>PERFORMANCE</b> The instructor candidate shall demonstrate the ability to produce a pre burn plan. <b>OUTCOME:</b> <b>Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.</b>		
<b>EQUIPMENT REQUIRED:</b> Live fire training structure, site plan, appropriate PPE, tools for a written or computer generated document.		
<b>CONDITIONS:</b> Given a specific live fire training structure, the instructor candidate shall demonstrate the ability to:		
No.	Task Steps	✓
1.	A preburn plan shall be prepared and shall be utilized during the preburn briefing sessions.	
<b>All features of the training areas shall be indicated on the preburn plan.</b>		
2.	a. Training structure location, orientation, layout, and exits. b. Location of Basic Life Support (BLS) emergency medical services available on site to handle injuries.	
3.	<b>A site plan shall be developed and include, at a minimum:</b> a. Areas for the staging, operating, and parking of fire apparatus that are used in the live fire training evolution shall be designated. b. An area for parking fire apparatus and vehicles that are not a part of the evolution shall be designated so as not to interfere with fireground operations. c. Apparatus in service to respond to an emergency shall be located in an area that will facilitate a prompt response. d. Ingress and egress routes shall be designated, identified, and monitored during the training evolutions to ensure their availability in the event of an emergency. e. A parking area for an ambulance or an emergency medical services vehicle shall be designated and located where it will facilitate a prompt response in the event of personal injury to participants in the evolution.	
4.	<b>Water supply shall be calculated and provided. For existing fire training structures these calculations shall be verified.</b> a. The minimum water supply and delivery for the live fire training evolutions shall meet the criteria identified in NFPA 1142, <i>Standard on Water Supplies for Suburban and Rural Fire Fighting</i> . b. A minimum reserve of additional water in the amount of 50 percent of the fire flow demand, determined in accordance with 4.11.1, shall be available to handle exposure protection or unforeseen situations. c. Separate water sources shall be utilized for the supply of attack lines and backup lines in order to preclude the loss of both water supply sources at the same time. i. not required for gas fired facilities or ii. not required training facilities engineered for redundancy	

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**Evaluator (Print & Sign)**

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**Date:**



# LIVE FIRE TRAINING EVOLUTIONS

## FIXED FACILITY INSTRUCTOR I

### JPR: LFI-2

Candidate: \_\_\_\_\_

<b>STANDARD:</b> 6.2.1, 6.2.1.1, 6.2.2, 6.2.3, 6.2.4, 7.1.3, 7.2.1, 7.2.1.1, 7.2.2, 7.2.3, 7.2.4  NFPA 1403, 2012	<b>Task:</b> Prior to conducting Live Fire Training a Preburn Inspection shall be completed																		
<b>PERFORMANCE OUTCOME:</b>	The instructor candidate shall demonstrate the ability to complete a pre burn inspection of a fixed facility. <b>Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.</b>																		
<b>EQUIPMENT REQUIRED:</b>	Live fire training structure, site plan, appropriate PPE, tools for a written or computer generated document.																		
<b>CONDITIONS:</b>	Given a specific live fire training structure, the instructor candidate shall demonstrate the ability to:																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%; text-align: center;">No.</th> <th style="text-align: center;">Task Steps</th> <th style="width: 10%; text-align: center;">✓</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>All doors, windows and window shutters, railings, roof scuttles and automatic ventilators, mechanical equipment, lighting, manual or automatic sprinklers, and standpipes necessary for the live fire training evolution shall be checked and operated prior to any live fire training evolution to ensure they operate correctly.</td> <td style="text-align: center;">✓</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>All safety devices, such as thermal sensors, combustible gas monitors, evacuation alarms, and emergency shutdown switches, shall be checked prior to any live fire training evolutions to ensure they operate correctly. All debris hindering access shall be removed</td> <td style="text-align: center;"></td> </tr> <tr> <td style="text-align: center;">3.</td> <td>The instructors shall run the training system prior to exposing students to live flames in order to ensure the correct operation of devices such as the gas valves, flame safeguard units, agent sensors, combustion fans, and ventilation fans.</td> <td style="text-align: center;"></td> </tr> <tr> <td style="text-align: center;">4.</td> <td>Damage shall be documented and the building owner or AHJ shall be notified.</td> <td style="text-align: center;"></td> </tr> <tr> <td style="text-align: center;">5.</td> <td>Where the live fire training structure damage is severe enough to affect the safety of the participants, training shall not be permitted.</td> <td style="text-align: center;"></td> </tr> </tbody> </table>	No.	Task Steps	✓	1.	All doors, windows and window shutters, railings, roof scuttles and automatic ventilators, mechanical equipment, lighting, manual or automatic sprinklers, and standpipes necessary for the live fire training evolution shall be checked and operated prior to any live fire training evolution to ensure they operate correctly.	✓	2.	All safety devices, such as thermal sensors, combustible gas monitors, evacuation alarms, and emergency shutdown switches, shall be checked prior to any live fire training evolutions to ensure they operate correctly. All debris hindering access shall be removed		3.	The instructors shall run the training system prior to exposing students to live flames in order to ensure the correct operation of devices such as the gas valves, flame safeguard units, agent sensors, combustion fans, and ventilation fans.		4.	Damage shall be documented and the building owner or AHJ shall be notified.		5.	Where the live fire training structure damage is severe enough to affect the safety of the participants, training shall not be permitted.		
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**Evaluator** (Print & Sign)

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**Date:**



# LIVE FIRE TRAINING EVOLUTIONS FIXED FACILITY INSTRUCTOR I JPR: LFI-3

Candidate: \_\_\_\_\_

<b>STANDARD:</b> 4.15.2, 4.15.3, 4.15.4, 4.15.5, 4.15.6, 4.15.7, 4.16.1, 4.16.2  <b>NFPA 1403, 2012</b>	<b>Task:</b> Prior to conducting Live Fire Training and a preburn briefing and Walkthrough with all Participants shall be completed.	
<b>PERFORMANCE OUTCOME:</b> The instructor candidate shall demonstrate the ability to complete a pre burn briefing. <b>E:</b> <b>Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.</b>		
<b>EQUIPMENT REQUIRED:</b> Live Fire Training Structure, appropriate PPE.		
<b>CONDITIONS:</b> Given a specific pre burn plan and live fire students, the candidate shall demonstrate the ability to:		
No.	Task Steps	✓
1.	Prior to conducting actual live fire training evolutions, a preburn briefing session shall be conducted by the instructor-in-charge with the safety officer for all participants.	✓
2.	All facets of each evolution to be conducted shall be discussed.	✓
3.	Assignments shall be made for all crews participating in the training session.	✓
4.	The location of the manikin shall not be required to be disclosed, provided that the possibility of victims is discussed in the preburn briefing.	✓
5.	Prior to conducting any live fire training, all participants shall have a knowledge of and familiarity with the prop or props being used for the evolution.	✓
6.	Ensure no person(s) shall play the role of a victim inside any live fire structure.	✓
7.	Ensure victim(s) (rescue mannequins) shall not be dressed in fire fighting personal protective clothing.	✓
8.	A pre-burn walk through shall be completed a. All participants shall be required to conduct a walk-through of the acquired structure, burn building, or prop in order to have a knowledge of and familiarity with the layout of the acquired structure, building, or prop and to facilitate any necessary evacuation. b. A building evacuation plan shall be established, including an evacuation signal to be demonstrated to all participants in an interior live fire training evolution.	✓

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**Evaluator (Print & Sign)**

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**Date:**



# LIVE FIRE TRAINING EVOLUTIONS

## FIXED FACILITY INSTRUCTOR I

### JPR: LFI-4

Candidate: \_\_\_\_\_

<p><b>STANDARD:</b> 4.6.4, 4.6.5, 4.6.5.1, 4.11.1, 4.12.9, 4.12.10, 4.12.10.1,</p> <p><b>NFPA 1403, 2012</b></p>	<p><b>Task:</b> Prior to conducting actual live fire training evolutions, the instructor in charge shall adequately control the live fire scene and ensure compliance with the NFPA 1403 Standard.</p>	
<p><b>PERFORMANCE OUTCOME:</b></p>	<p>The candidate shall demonstrate the ability to control and be in charge of the live fire evolution, ensuring compliance with NFPA 1403..</p> <p><b>Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.</b></p>	
<p><b>EQUIPMENT REQUIRED:</b> Live Fire Training Structure and appropriate PPE.</p>		
<p><b>CONDITIONS:</b> Given a specific pre burn plan, live fire training structure(s) and facility(s), and live fire students, the instructor candidate shall demonstrate the ability to:</p>		
<p>No.</p>	<p>Task Steps</p>	<p style="text-align: center;">✓</p>
<p>1.</p>	<p>The instructor-in-charge and the safety officer shall document fuel loading, including all of the following:</p> <ul style="list-style-type: none"> <li>(1) Fuel material</li> <li>(2) Wall and floor coverings and ceiling materials</li> <li>(3) Type of construction of the structure, including type of roof and combustible void spaces</li> <li>(4) Dimensions of the room</li> </ul>	<p></p>
<p>2.</p>	<p>The training exercise shall be stopped immediately when the instructor-in-charge or the safety officer determines through ongoing assessment that the combustible nature of the environment represents a potential hazard.</p>	<p></p>
<p>3.</p>	<p>An exercise stopped as a result of an assessed hazard according to 4.12.10 shall continue only when actions have been taken to reduce the hazard.</p>	<p></p>
<p>4.</p>	<p>The instructor-in-charge and the safety officer shall determine the rate and duration of waterflow necessary for each individual live fire training evolution, including the water necessary for control and extinguishment of the training fire, the water supply necessary for backup line(s) to protect personnel, and any water needed to protect exposed property.</p>	<p></p>
<p>5.</p>	<p>The instructor-in-charge shall assign the following personnel:</p> <ul style="list-style-type: none"> <li>(1) One instructor to each functional crew, each of which shall not exceed five students</li> <li>(2) One instructor to each backup line</li> <li>(3) One additional instructor for each additional functional assignment</li> </ul>	<p></p>
<p>6.</p>	<p>The instructor-in-charge shall provide for rest and rehabilitation of participants operating at the scene, including any necessary medical evaluation and treatment, food and fluid replenishment, and relief from climatic conditions. (See Annex D.)</p>	<p></p>
<p>7.</p>	<p>The Instructor-In-Charge shall rotate instructors through duty assignments.</p>	<p></p>

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**Evaluator (Print & Sign)**

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**Date:**



# LIVE FIRE TRAINING EVOLUTIONS FIXED FACILITY INSTRUCTOR I JPR: LFI-5

Candidate: \_\_\_\_\_

<p><b>STANDARD:</b>4.4.1, 4.4.3, 4.4.4, 4.4.5, 4.4.6, 4.4.7, 4.8.2, 4.9.1, 4.14.1, 4.16.1, 4.16.2,</p> <p><b>NFPA 1403, 2012</b></p> <p><b>General Requirements</b></p>	<p><b>Task:</b> Prior to and during any actual live fire training evolutions, the safety officer shall be responsible for the safety of all evolutions</p>	
<p><b>PERFORMANCE OUTCOME:</b></p>	<p>The instructor candidate shall demonstrate the ability to maintain safety in compliance with NFPA 1403.</p> <p><b>Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.</b></p>	
<p><b>EQUIPMENT REQUIRED:</b> Live Fire Training Structure, appropriate PPE and SCBA.</p>		
<p><b>CONDITIONS:</b> Given a specific pre burn plan, live fire training structure(s) and facility(s), and live fire students, the instructor candidate shall demonstrate the ability to:</p>		
No.	Task Steps	✓
1.	A safety officer shall be appointed for all live fire training evolutions.	
2.	Ensure no person(s) shall play the role of a victim inside any live fire structure.	
3.	Ensure victim(s) (rescue mannequins) shall not be dressed in fire fighting personal protective clothing.	
4.	All spectators shall be restricted to an area outside the operations area perimeter established by the safety officer.	
5.	All participants shall be inspected by the safety officer prior to entry into a live fire training evolution to ensure that the protective clothing and SCBA are being worn correctly and are in serviceable condition.	
6.	A method of fireground communications shall be established to enable coordination among the incident commander, the interior and exterior sectors, the safety officer, and external requests for assistance.	
7.	The safety officer shall have the authority, regardless of rank, to intervene and control any aspect of the operations when, in his or her judgment, a potential or actual danger, potential for accident, or unsafe condition exists.	
8.	The responsibilities of the safety officer shall include, but not be limited to, the following: (1) Prevention of unsafe acts (2) Elimination of unsafe conditions	
9.	The safety officer shall provide for the safety of all persons on the scene, including students, instructors, visitors, and spectators.	
10.	The safety officer shall not be assigned other duties that interfere with safety responsibilities.	
11.	The safety officer shall be knowledgeable in the operation and location of safety features available for the live fire training structure or prop, such as emergency shutoff switches, gas shutoff valves, and evacuation alarms.	



# LIVE FIRE TRAINING EVOLUTIONS FIXED FACILITY INSTRUCTOR I JPR: LFI-6

**Candidate:** \_\_\_\_\_

<b>STANDARD:</b> 4.11.7, 4.12.11.2, 4.12.11.3, 4.12.11.5, 4.12.11.7  <b>NFPA 1403, 2012</b>	<b>Task:</b> Strict safety practices shall be applied to all exterior props selected for live fire training evolutions.	
<b>PERFORMANCE OUTCOME:</b>	The candidate shall demonstrate the ability to perform safely during exterior props evolutions  <b>Safety:</b> A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.	
<b>EQUIPMENT REQUIRED:</b> Live Fire Training Structure, appropriate PPE and SCBA.		
<b>CONDITIONS:</b> Given a specific pre burn plan, exterior prop(s), and live fire students, the instructor candidate shall demonstrate the ability to:		
No.	Task Steps	✓
1.	Ensure where the evolution involves the failure of a safety feature, the failed part shall be located downstream from the correctly functioning safety feature.	
2.	Ensure vehicles used as props for live fire training shall have all fluid reservoirs, tanks, shock absorbers, drive shafts, and other gas-filled closed containers removed, vented, or drained prior to any ignition.	
3.	Ensure all props that use pressure to move fuel to the fire shall be equipped with remote fuel shutoffs outside of the safety perimeter but within sight of the prop and the entire field of attack for the prop.	
4.	Ensure during the entire time the prop is in use, the remote shutoff shall be continuously attended by safety personnel who are trained in its operation and who have direct communications with the safety officer and instructors.	
5.	Ensure there shall be room provided around all props so that there is space for all attack line(s) as well as backup line(s) to operate freely.	

**Evaluator (Print & Sign)** \_\_\_\_\_

**Date:** \_\_\_\_\_