

Live Fire Training Instructor Program

Title: Master SyllabusDate: October 20, 2016

Course Title	Live Fire Training Instructor (LFTI)
Course Number	BFST3530, ATPC3530
Prerequisite(s)	Instructor I; Firefighter II
Revision Date	August 2022
College Credit	This course does not carry college credits.
Recommendation	
Continuing	This course does not provide CEUs
Education Units	
(CEU's)	
Class Days/Time	Monday – Friday8:00 a.m. – 5:00 p.m.
Instructional	Name: Robert Coyne
Supervisor	Email: FloridaCollegeTraining@myfloridacfo.com
Program Specialist	Name:
	Email:
Class Location	Florida State Fire College
Course Description	This curriculum is designed to deliver a comprehensive live fire training
	program, within a safe and controlled environment, in accordance with
	NFPA 1402, NFPA 1403, and NFPA 1500. Both lecture and practical will
	be used allowing participants to apply knowledge of the above standards
	to training activities.
Student Learning	After the successful completion of this course, the student will be able to
Outcomes	do the following:
	1. Explain the history of NFPA 1403 and its adoption in Florida.
	2. Describe how a line-of-duty death impacts an agency.
	3. Discuss the qualifications of responsibilities of a live fire instructor.
	4. Discuss their physiologic strains that firefighting puts on a firefighter.
	5. Describe the process involved in preparing for a live fire training
	evolution.
	6. Describe how to prepare an acquired structure for a live fire training
	evolution.7. Describe the preparation and procedures to use a gas-fired and non-gas-
	fired structure for live fire training.
Required Textbook	<i>Live Fire Training Principles and Practice (1st ed. Revised);</i> Jones and
	Bartlett (2015) ISBN: 13: 9781284041231
Required Materials	NFPA 1403, 2012 ed., entire publication including appendixes; Florida
1.19411 04 1914101 1415	Administrative Code 69A and 633 (requirements for Live Fire Training for
	Certified Personnel; requirements for live fire training during recruit
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	live fire instruction renewal and in	ication prerequisites for live fire training instructor training; ctor training requirements; live fire training certification and structor certification revocation); FAC 62.256.700(4) (open e training of firefighters); NFPA 1402
Method of Instruction	Classroom and	practical.
Grading	Passing 70%	
Certification(s)		ive Fire Training Instructor certification.
Attendance Policy	You are require course assignment be considered a	ed to attend all sessions of the course and complete all pre- nents. Failure to appear in class for a scheduled activity will an absence. Students are allowed to miss 10% of the class e credit. There are no makeup sessions.
Academic Integrity	respect for the yourself. Any plagiarism, col administered te Under Florida	grity is crucial to the learning community and indicates college, the instructor, the course, your classmates and violation of this trust, including but not limited to cheating, lusion, or using or having any content of an un- est, will result in immediate dismissal from the course. Statute 633, any student dismissed for academic dishonesty acceptance for any course administered by FSFC.
	Qualification Description	LIVE FIRE TRAINING INSTRUCTOR
	Training Provider Message	You must be certified by the State of Florida as an Instructor I, II, or III AND a Firefighter II. Applications can be made through the Bureau of Fire Standards and Training.
	Instructor Message	You may teach courses for this type of Competency only if you have taken the train-the-trainer course and you hold the certification, and the appropriate level of instructor certification.
	Pre- Certification Message	To be certified as a LFTI in the State of Florida, an individual must successfully complete 40 hours of basic certification training and pass a state written examination. Documentation of training is to be submitted with the required application. Passing score on this state examination is 85% or higher. When taking a state exam, please ensure that your personal profile matches the identification that you plan to produce at Pearsonvue.
	Renewal Message	THIS CERTIFICATION HAS A FOUR YEAR RENEWAL PERIOD.
Students with Disabilities		ho has a permanent or temporary disability that may require ccommodation to participate in the course must present

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	dominantation of the disability and as much descent detices a lat
	documentation of the disability and requested accommodation no later
F	than the beginning of the course.
Emergency Evacuation Policy	Occupants of buildings on the Florida State Fire College campus are required to evacuate and assemble outside when a fire alarm is activated or an announcement is made. Please be aware of the following policies regarding evacuation.
	 Familiarize yourself with all exit doors of the classroom and the building. Remember that the nearest exit door may not be the one you used
	when you entered the building.
	• If you require assistance to evacuate, inform the instructor on the first day of class.
	• In the event of an evacuation, follow the guidance of the instructor.
	• Do not re-enter a building unless you are given instructions by Florida State Fire College personnel to do so.
Requesting	Any request for emergency care should be initiated by calling "911" from
Emergency Care	any phone on campus of the Florida State Fire College. Phones are
	located in each classroom. Additionally, in the event of any emergency,
	immediately contact an instructor or staff member.
Critical Event	Severe Weather – there is a lightning detection system on campus which
Procedures	has an audible 15 second blast of an air horn. If you are outside, please
	follow your instructor or move to the closest permanent building. Once the threat is over, there will be three 5 second blasts of the signal.
	Security – During the daytime, security is handled by full time faculty and staff. There are security guards on duty in the evenings and weekends. Please comply with the requests made of security officers. Failure to do so can result in removal from campus.
	Student Badges – You will be issued a badge to be worn anytime you are on campus.
Enabling Objectives	Given information from discussion and reading materials, the student will perform the following objectives to a written test accuracy of at least 85% and meet the applicable job performance requirements of NFPA 1403 (2012).
	Chapter 1 Introduction to Live Fire Training
	1. Describe the reasons why NFPA 1403, Standard on Live Fire
	Training was developed.
	2. Discuss why Florida has live fire training rules and the impact of
	Florida Administrative Code 69A and Statute 633. (FL Specific)
	 Describe the purpose of NFPA 1403. Describe the live fire training evolutions covered under NFPA
	1403.
	5. Describe the additional National Fire Protection Association (NFPA) standards that affect live fire training.
	6. Identify the legal requirements associated with live fire training.

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7. Discuss line of duty deaths that have occurred in live fire training
and the impact /involvement of NFPA 1403. (FL Specific)
8. Discuss Florida's rule on open burning for the training of
firefighters. (FL Specific)
9. Discuss the definitions used in NFPA 1403. (FL Specific)
10. Identify referenced publications in NFPA 1403. (FL Specific)
11. Describe the impact of NFPA 1402 on live fire training. (FL Specific)
Chapter 2 Critical Incident Planning
1. Describe the purpose of a line-of-duty significant injury or death plan
and its necessity.
2. Describe the role of the National Institute for Occupational Safety and
Health's Fire Fighter Fatality Investigation and Prevention Program
(NIOSH FFFIPP) following a fire fighter fatality.
3. Describe how to appropriately manage the news media following the
injury or death of a participant during a live fire training evolution.
4. Describe the repercussions that a line-of-duty significant injury or death
can have on a fire department.
5. Identify objectives for live fire training.
<u>Chapter 3 Preparation and Training of Instructors</u>
1. Describe the necessary prerequisite knowledge and skills for a fire
fighter to become a live fire training instructor.
2. Identify the requirements to be a live fire training instructor according to NFPA 1403, <i>Standard on Live Fire Training Evolutions</i> .
3. Describe the fire behavior knowledge necessary for a live fire training
instructor, including fire dynamics and heat release rate.
4. Describe the standard training evolutions for the live fire instructor
candidate.
5. Recognize and explain fire growth dynamics.
6. Identify requirements to become a Live Fire Training Instructor in
Florida. (FL Specific)
Chapter 4 Fire Fighter Physiology
1. Describe the cardiovascular and thermal responses to firefighting.
2. Describe how firefighting activity and turnout gear affect
cardiovascular and thermal strain.
3. Describe how fitness levels affect cardiovascular and thermal strain.
4. Describe how to prevent injuries, such as heat illness, during
firefighting activity and training.
5. Describe the warning signs for heat illnesses that may occur in
firefighting activity and training.
6. Describe how high aerobic fitness is necessary to safely and effectively
perform firefighting activity.
7. Describe the risk factors for cardiovascular disease.
8. Describe the importance of modifiable risk factors for cardiovascular
disease, and describe ways to decrease those factors.
9. Describe the goals of on-site rehabilitation.
10. Define heat stress and relative humidity (FL Specific).
11. Identify the requirements of NFPA 1584. (FL Specific)

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	Chapter 5 Planning for Live Fire Training
	1. Identify prospective structures for live fire training.
	2. Define the aspects of the preburn plan for live fire training.
	3. Describe the planning steps for live fire training to ensure compliance with NFPA 1403.
	4. Describe the planning and legal requirements of NFPA 1403 for live fire training.
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	5. Identify participants and their roles in live fire training.
	 Describe the student prerequisites for participation in live fire training.
	7. Identify water supply needs for live fire training.
	8. Identify parking and areas of operation for live fire training.
	9. Describe the general order of operations for live fire training.
	10. Describe the roles and duties of the safety officer during live fire
	training.
	11. Identify safety hazards in live fire training.
	12. Describe the steps needed to mitigate safety hazards during the
	preparation and operation phases of live fire training.
	13. Identify the need for staff and participant rotation during live fire training.
	14. Compare the benefits and risks of using acquired structures. (FL
	Specific)
	15. Explain the advantages and disadvantages of using acquired
	structures. (FL
	Specific)
	16. Identify the steps in building preparation and recognize who should review and approve legal documents to include: (FL Specific)
	Permits
	Permission
	Determination of ownership
	Evidence of clear title
	Proof of insurance cancellation
	17. List records and reports that must be maintained on all live fire training evolutions. (FL Specific)
	18. Identify who is responsible for maintenance and retention of
	documentation. (FL Specific)
	19. Explain the purpose of and recognize how the following forms
	and/or/documentation are used: (FL Specific)
	release form
	notice of cancellation/non-renewal of insurance
	transfer of authority for the building after live fire training is completed
	post-training critique
	check lists
	Annex C Responsibilities of Personnel
	Chapter 6 Acquired Structures
	1. Define an acquired structure according to NFPA 1403.
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2. Describe how to perform an initial evaluation on an acquired structure.
3. Identify the responsibilities of the owner of the acquired structure.
4. Identify the information that must be included in the preburn plan for
an acquired structure.
5. Describe how to ensure the water supply is adequate for training
evolutions.
6. Describe how to prepare an acquired structure for live fire training.
 Describe how to prepare an acquired structure for five fire training. Describe how to secure access to the site of the acquired structure.
 Bescribe how to secure access to the site of the acquired structure. Identify the equipment and supplies required to prepare an acquired
structure for live fire training.
9. Identify the precautions to take to ensure proper entry and egress for
the acquired structure.
10. Identify the structural elements to evaluate when preparing an acquired
structure for live fire training.
11. Describe the steps of preparing the interior of an acquired structure for
live fire training.
12. Describe how to ensure the safety of the occupants of the homes and
businesses adjacent to the acquired structure.
13. List the equipment and supplies required for live fire training in an
acquired structure.
14. Describe how fuel for ignition is prepared safely.
15. Determine the fuel load required to meet the desired learning
objectives for the particular evolution. (FL Specific)
16. List the steps to follow prior to the ignition phase.
17. Describe how to ensure safety in preparing for and during the final
controlled burn.
18. Describe tasks involved in the overhaul phase.
•
19. Describe the benefits of a post evolution debriefing.
20. Recognize hazardous containers and identify how they should be
handled.
20. Identify how to address modifications to structures and how to prepare
the structure for safe training to include: floor openings; missing stairs;
chimneys; walls and ceilings; fiberboard and combustible interior
finishes; extraordinary weight; vinyl siding, soffits, and rain gutters;
overhangs and parapets.
21. Identify hazardous environmental conditions and describe how to
handle such hazards.
22. Describe how the following are addressed in order to safely use the
structure for live fire training.
Roof ventilation
Asbestos
Exits, windows, and doors
23. Explain what should occur if a structure cannot be made safe.
24. Describe how weather affects live fire training exercises.
25. Calculate water supply. (FL Specific)
<u>Chapter 7 Gas-Fire and Non-Gas-Fired Structures</u>
1. Identify the codes, standards, and guidelines to consult when building
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an exte 6. Descri trainin 7. Descri 8. Descri 9. Descri 10. List sa	s the characteristics of a Class B prop.
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trainin 7. Descri 8. Descri 9. Descri 10. List sa	erior prop.
7. Descri8. Descri9. Descri10. List sa	be how to ensure the safety of all participants during live fire
8. Descri 9. Descri 10. List sa	g evolutions.
9. Descri 10. List sa	be how to prepare an exterior prop for safe live fire training.
10. List sa	be how to ensure a safe ignition with a Class A prop.
	be how to ensure a safe ignition with a Class B prop.
to hoze	fety considerations when conducting outside training in relation
10 11424	rds, terrain and obstructions, ground cover, runoff, and clean
up. (Fl	L Specific)
11. List in	spections, when they are to be conducted and required
docum	entation for exterior props. (FL Specific)
	y what devices need to be checked prior to any live fire
evolut	on. (FL Specific)
up. (Fl 11. List in docum 12. Identif	ards, terrain and obstructions, ground cover, runoff, and clean _ Specific) spections, when they are to be conducted and required entation for exterior props. (FL Specific) y what devices need to be checked prior to any live fire

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	 13. Describe the procedure for handling debris around props. (FL Specific) 14. Determine what fuels will be used in live fire training evolutions and their behavior. 15. Identify the impact of NFPA 58 and NFPA 59 on exterior props.
	15. Identify the impact of for 17756 and for 17759 on exterior props.
	16. Describe the procedure for an evolution involving the failure of a safety feature of a gas prop. (FL Specific)
	Chapter 9 Live Fire Training Evolutions
	1. Define a live fire training evolution.
	2. Describe the tasks a learning objective performs within a live fire
	training evolution.
	3. List the two types of students who participate in live fire training
	evolutions.
	4. Identify the challenges and concerns in designing a live fire training
	evolution for a recruit fire fighter.
	5. Identify the challenges and concerns in designing a live fire training
	evolution for an experienced fire fighter.
	6. Identify the items discussed during the preburn briefing.
	7. Describe the role of the live fire training instructor in ensuring
	participant safety during a live fire training evolution.
	8. Describe the goals of the post evolution debriefing.
Practical	The student shall successfully demonstrate the below JPR's of NFPA
Applications	1403 and practical applications.
	1. Develop an appropriate prerequisite training program for
	students who will be engaged in live fire evolutions.
	2. Develop a process to evaluate a student's mastery of the
	required knowledge and skills.
	3. Demonstrate proficiency operating as a live fire training
	instructor working with interior crews with regards to crew safety
	and observing fire conditions.
	4. Prepare a written preburn plan for an acquired structure to use for live fire training exercises for compliance with NFPA 1403.
	5. Prepare a written preburn plan for a permanent live fire training
	structure to use for live fire training for compliance with NFPA 1403.
	6. Conduct a building inspection, identify and remove/control potential
	hazards, and identify water sources for attack and backup lines listing
	the exception to the two source rule.
	7. Develop a building plan for live fire training in any type of structure.
	8. Develop a site plan for live fire training.
	9. Develop emergency plans for live fire training.
	10. Develop a communication plan for live fire training.
	11. Inspect and prepare an acquired structure for live fire training.
	12. Inspect and prepare a gas-fired live fire training structure.
	13. Inspect and prepare a non-gas-fired live fire training structure.
	13. Inspect and prepare a non-gas-fired live fire training structure.14. Inspect and prepare an exterior prop for live fire training.
	13. Inspect and prepare a non-gas-fired live fire training structure.

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	Make assignments for all crews participating.
18.	Conduct a walk-through of the acquired structure, burn building or
	prop.
19.	Identify property affected by live fire training evolutions.
20.	Eliminate hazards to visitors and motorists.
21.	Ensure all permits are obtained and proof of insurance cancellation.
22.	Assure a properly trained RIC is available for live fire training.
23.	Assure all safety equipment functions properly prior to evolutions.
24.	Evaluate structural integrity of all props.
25.	Develop and utilize a burn sequence matrix chart.
26.	Maintain required reports.
27.	Complete required records.
28.	Function as an IIC or Safety Officer on a live fire training evolution.
29.	Conduct a live fire training drill from start to finish assuring that all
	positions, forms, plans, and walkthroughs are conducted following
	NFPA 1403.
30.	Prepare adjacent structures and properties for live fire training.
31.	Conduct training evolutions rotating as an IIC and Safety Officer.
32.	Complete an IAP for the following evolutions:
	1. Gas-fueled building
	2. Non-gas fired building
	3. Exterior Class A burn
	4. Exterior Class B burn
	5. Vehicle burn
33.	Utilize command accountability boards.
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