

Live Fire Training Instructor Program

Title: Master SyllabusDate: October 20, 2016

| Course Title | Live Fire Training Instructor (LFTI) |
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| 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 |
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| 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 |
| | 1 continue reasonnel, requirements for five file training during feeluit |

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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 |
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| | 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 |
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| 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. |
| | e |
| | 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. |
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| 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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| 8. Identifi 9. Descrininpler 10. Descrininpler 11. Descrininin 12. Descrininin 13. Descrininin 14. Descrinininin 15. Descrinininininini 16. Descrininininini 17. Descrininini 18. Descrininini 19. Descrinini 10. List same | sist in providing realistic training evolutions. |
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| 10. Descri 11. Descri evolut 12. Descri 13. Descri 14. Descri safe tra 15. Descri a safe 16. Descri system 17. Descri Chapter & 1. Descri prop. 2. Discus 3. Descri 4. Discus 5. Identifi an exto 6. Descri trainin 7. Descri 8. Descri 9. Descri 10. List sa | nented correctly. |
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| evolut 12. Descri 13. Descri 14. Descri safe tra 15. Descri a safe 16. Descri system 17. Descri Chapter 8 1. Descri prop. 2. Discus 3. Descri 4. Discus 5. Identifi an exte 6. Descri trainin 7. Descri 8. Descri 9. Descri 10. List sa | be how to ensure the water supply is adequate for training |
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| safe tra 15. Descri a safe 16. Descri system 17. Descri <u>Chapter 8</u> 1. Descri prop. 2. Discus 3. Descri 4. Discus 5. Identifi an exte 6. Descri trainin 7. Descri 8. Descri 10. List sa | be how to prepare a gas-fired live fire training structure for a |
| 15. Descri a safe 16. Descri system 17. Descri Chapter 8 1. Descri prop. 2. Discus 3. Descri 4. Discus 5. Identifi an exte 6. Descri trainin 7. Descri 8. Descri 9. Descri 10. List sa | aining evolution. |
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| 17. Descri <u>Chapter 8</u> 1. Descri prop. 2. Discus 3. Descri 4. Discus 5. Identif an exte 6. Descri trainin 7. Descri 8. Descri 9. Descri 10. List sa | |
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| prop. 2. Discus 3. Descri 4. Discus 5. Identif an exte 6. Descri trainin 7. Descri 8. Descri 9. Descri 10. List sa | Nonstructural Training Props |
| 2. Discus 3. Descri 4. Discus 5. Identifian exterior 6. Descritrainin 7. Descri 8. Descri 9. Descri 10. List satisfies | be the differences between an acquired prop and a manufactured |
| 3. Descri 4. Discus 5. Identif an externa 6. Descri trainin 7. Descri 8. Descri 9. Descri 10. List sa | |
| 4. Discus 5. Identifan extended 6. Descrittrainin 7. Descritti 8. Descritti 9. Descritti 10. List satisfies | s the characteristics of a Class A prop. |
| 5. Identifian extension 6. Descritistrainin 7. Descriti 8. Descriti 9. Descriti 10. List satistrainin | be the types of Class A props. |
| an exte 6. Descri trainin 7. Descri 8. Descri 9. Descri 10. List sa | s the characteristics of a Class B prop. |
| 6. Descritrainin 7. Descrit 8. Descrit 9. Descrit 10. List satisfies | y the information that must be included in the preburn plan for |
| 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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