Firefighter Part I

Title: Master Syllabus
Date: October 19, 2016

Course Title	Firefighter Part I
Course Number	BFST109, ATPC109
Prerequisite(s)	First Responder Basic is a co-requisite. **NOTE:** Students must be at least 18 years of age to participate in live fire training exercises.
Revision Date	October 19, 2016
College Credit Recommendation	
Continuing Education Units (CEU's)	This course does not count for continuing education credits.
Class Days/Time	Varies by provider.
Program Specialist Contact Name	Name: Barbara Klingensmith Email: Barbara.Klingensmith@myfloridacfo.com
Class Location	Varies
Course Description	This course is a minimum of 206 hours of classroom and practical applications. The course will meet the JPR's of NFPA 1001 Standard for Fire Fighter Professional Qualifications, 2013 edition. During the first responder component, Sudden Unexplained Infant Death Syndrome (SUID) must be covered per Senate Bill 56. Training providers can chose the textbook and curriculum for the first responder requirements as long as the program meets or exceeds DOT guidelines. The Hazardous Materials component of the course must meet or exceed NFPA 472 Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction. The course will present the history of the fire service, firefighter safety and health, communications, building construction, the science of fire, PPE, fire extinguishers, ropes and knots, search and rescue, vehicle extrication and technical rescue, ladders, ventilation, water supply, hose handling, fire streams and fire control, salvage and overhaul, and fire and life safety initiatives. NOTE: This class can be done in a blended online delivery following the guidelines for the Firefighter I Certificate of Completion Program found on the Florida State Fire Marshal website under Bureau of Fire Standards and Training, Training Section.

Student Learning Outcomes	After the successful completion of this course, the student will be able to do the following: 1. Describe how the history and culture of the fire service influence its basic mission, the roles within it, and the skills needed to operate as a part of the fire service. 2. Discuss how firefighter health, safety prevention, and situational awareness are interrelated parts of preventing on-the-job injuries. 3. Discuss external and internal communications in the fire service and display the correct communication skills during emergency and nonemergency calls. 4. Explain how common building materials and construction methods are impacted by fire and explain how construction methods of basic building materials can either contribute to, or help control, fire spread. 5. Explain the science of fire behavior as it relates to recognizing stages of fire development, rapid fire behavior, and fire fighting operational safety. 6. Properly use and care for PPE and describe how it can protect firefighters and the limitations of PPE. 7. Select, use, and correctly maintain portable fire extinguishers. 8. Select rope and webbing based on proposed use and tie the appropriate knot for various tasks such as securing and raising objects. 9. Describe and perform search and victim removal methods as well as firefighter survival skills. 10. Identify emergency scene lighting equipment. 11. Explain and perform forcible entry and breaching operations. 12. Select, carry and deploy the appropriate ladder for various tasks such as entry and rescue. 13. Apply tactical ventilation knowledge and practices following AHJ policies and procedures. 14. Discuss the various components of water supply systems and describe alternative water supply sources used for rural water supply. 15. Describe fire hose characteristics, inspection and maintenance procedures, and perform various hose rolls, loads, and finishes. 16. Describe characteristics of fire streams and their uses. 17. Describe how and perform skills to control structural fires, Class C and D fires, vehicle and ground cover fires. 18. Apply loss control knowledge and practices following AHJ policies and procedures. 19. Describe the role of the Firefighter I in the development and implementation of a fire and life safety program.
Required Textbook	*Essentials of Fire Fighting and Fire Department Operations,* IFSTA/BRADY (2013) ISBN: 978-0-13-314080-4

Required Materials	Hose and appliances, ladders, hand tools, salvage covers, lighting, personal protective clothing, SCBA, radios, facilities to perform live burn scenarios and above grade and below grade scenarios, search and rescue facilities, ropes, ventilation equipment, engine(s), and other equipment needed to perform the JPR's of NFPA 1001. Task book must be successfully completed and skills must be signed off by two independent instructors.
Method of Instruction	Classroom and practical exercises.
Grading	Passing 70%
Certification(s)	Volunteer Firefighter
Attendance Policy	You are required to attend all sessions of the course and complete all pre-course assignments. Failure to appear in class for a scheduled activity will be considered an absence. Students are allowed to miss 10% of the class and still receive credit. There are no makeup sessions.
Academic Integrity	Academic integrity is crucial to the learning community and indicates respect for the college, the instructor, the course, your classmates and yourself. Any violation of this trust, including but not limited to cheating, plagiarism, collusion, or using or having any content of an un-administered test, will result in immediate dismissal from the course. Under Florida Statute 633, any student dismissed for academic dishonesty can be refused acceptance for any course administered by FSFC.
Students with Disabilities	Any student who has a permanent or temporary disability that may require a reasonable accommodation to participate in the course must present documentation of the disability and requested accommodation no later 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 Emergency Care	Any request for emergency care should be initiated by calling "911" from 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 Procedures	**Severe Weather –** there is a lightning detection system on campus which 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 70% and meet the applicable job performance requirements of NFPA 1001 (2013). **<u>Orientation and Fire Service History</u>** 1. Summarize the history of the fire service. 2. Explain the organizational characteristics, cultural challenges, and cultural strengths that influence the fire service. 3. Describe the mission of the fire service. *[NFPA® 1001, 5.1.1]* 4. Describe the organization of fire departments. *[NFPA® 1001, 5.1.1]* 5. Distinguish among functions of fire companies. *[NFPA® 1001, 5.1.1]* 6. Summarize primary knowledge and skills the firefighter must have to function effectively. *[NFPA® 1001, 5.1.1, 6.1.1]* 7. Distinguish among the primary roles of fire service personnel. *[NFPA® 1001, 5.1.1, 6.1.1]* 8. Describe fire department organizational principles. *[NFPA® 1001, 5.1.1]* 9. Locate information in departmental documents and standard or code materials. *[NFPA® 1001, 5.1.2]* 10. Distinguish between fire department SOPs and rules and regulations. *[NFPA® 1001, 5.1.1]* 11. Explain the ways the fire service may interact with other organizations. *[NFPA® 1001, 5.1.1]* 12. Describe the organization of the AHJ fire department. 13. Explain the roles of the Firefighter I and Firefighter II as a member of the organization. 14. Demonstrate the ability to use departmental documents, standards or code materials to locate information specific to those materials. 15. Explain the purpose of the FOG.

	16. Given Florida Statutes, explain the impact of "duty to drive with due regard for the safety of all persons using the highway" upon emergency driving liability. 17. Given Florida Statutes, identify when the use of red warning signals is authorized for a volunteer's personal operating vehicle (POV), how many red signals may be displayed on a volunteer's POV, and what documentation is required to be able to display red signals and where it is to be kept. 18. Identify the requirements to attaining and maintaining a firefighter certificate of completion and a certificate of compliance. 19. Identify three purposes of the Incident Command System (ICS). 20. Identify requirements to use ICS. 21. Describe the basic features of ICS. 22. Describe the role and function of the command staff. 23. Define the roles and functions of the operations, plans, logistics, finance/administration section and the information/intelligence functions. 24. Describe basic ICS facilities. 25. Identify facilities that may be located together. 26. Identify facility map symbols. 27. Describe common mobilization responsibilities. 28. Describe common responsibilities at an incident. 29. List individual accountability responsibilities. 30. Describe common demobilization responsibilities. 31. Describe NIMS concepts and principles. 32. Identify the benefits of using NIMS as a national response model. 33. Identify the organizational structure of ICS. 34. Identify fire major management functions. 35. Describe the purpose of unique position titles in ICS. 36 Explain the roles and responsibilities of the Command and General Staff. 37. Determine when it is appropriate to institute an area command. 38. Describe the functions and purpose of Multiagency Coordination Systems. 39. Describe the Public Information Systems required by NIMS. 40. Identify ways in which NIMS affects how their jurisdictions prepare for incident and events. 41. Describe the advantages of common communication and information management standards. 42. Explain how NIMS will influence technology and technological systems required for emergency response. Objectives 19 to 31 are covered in IS100 and can be done online. Objectives 32 to 42 are covered in IS700 and can be done online.

	Firefighter Safety and Health 1. List the main types of job-related firefighter fatalities, injuries, and illnesses. *[NFPA® 1001, 5.1.1]* 2. Describe the National Fire Protection Association® standards related to firefighter safety and health. *[NFPA® 1001, 5.1.1]* 3. Identify Occupational Safety and Health Administration (OSHA) regulations and how they relate to firefighters. *[NFPA® 1001, 5.1.1]* 4. Summarize the model that supports the concept of risk management. *[NFPA® 1001, 5.1.1]* 5. Describe fire department safety and health programs. *[NFPA® 1001, 5.1.1]* 6. Summarize firefighter health awareness issues. *[NFPA® 1001, 5.1.1]* 7. Summarize safe vehicle operations. *[NFPA® 1001, 5.3.2]* 8. Summarize guidelines for riding safely on the apparatus. *[NFPA® 1001, 5.3.2]* 9. Describe ways to help prevent accidents and injuries in fire stations and facilities. *[NFPA® 1001, 5.1.1]* 10. Explain general guidelines for tool and equipment safety. *[NFPA® 1001, 5.1.1]* 11. Describe ways to maintain safety in training. *[NFPA® 1001, 5.1.1]* 12. State the practices a Firefighter I uses for emergency scene preparedness and safety. *[NFPA® 1001, 5.1.1, 5.3.3]* 13. Summarize general guidelines for scene management including highway incidents, crowd control, and cordoning off emergency scenes. *[NFPA® 1001, 5.1.1, 5.3.3]* 14. Explain the importance of personnel accountability. *[NFPA® 1001, 5.3.5]* 15. Explain the two-in two-out requirements of F.S. 633.508(3). 16. Discuss Florida's Firefighter Occupational Safety and Health Administration Regulations. **Communications** 1. Explain the procedures for receiving emergency and nonemergency external communications. *[NFPA® 1001, 5.2.1, 5.2.2]* 2. Describe the information required to dispatch emergency services. *[NFPA® 1001, 5.2.1, 5.2.2, 5.2.3]* 3. Describe the systems used for internal communications. *[NFPA® 1001, 5.2.1, 5.2.2]* 4. Explain radio limitations that may impact internal communications. *[NFPA® 1001, 5.2.3]* 5. Describe radio procedures used for internal communications. *[NFPA® 1001, 5.2.1, 5.2.3]* **Building Construction** 1. Describe the impact of fire on common building materials. *[NFPA®*

	1001, 5.3.4, 5.3.10, 5.3.12] 2. Explain the impact of fire on construction classifications. *[NFPA® 1001, 5.3.4, 5.3.10, 5.3.12]* 3. List the main types of occupancy classifications. 4. Describe the basic construction of building components. *[NFPA® 1001, 5.3.4, 5.3.10, 5.3.12]* 5. Describe Florida's marking systems for truss construction. **Fire Behavior** 1. Explain the science of fire as it relates to energy, forms of ignition, and modes of combustion. *[NFPA® 1001, 5.3.11]* 2. Describe the impact of thermal energy on heat, temperature, and heat transfer. *[NFPA® 1001, 5.3.12]* 3. Recognize the physical states of fuel. *[NFPA® 1001, 5.3.10]* 4. Explain the relationship between oxygen and life safety. *[NFPA® 1001, 5.3.11]* 5. Identify the products of self-sustained chemical reactions. *[NFPA® 1001, 5.3.11]* 6. Explain the factors that affect fire development. *[NFPA® 1001, 5.3.11]* 7. Describe the stages of fire development. *[NFPA® 1001, 5.3.11]* 8. Recognize signs, causes, and effects of rapid fire development. *[NFPA® 1001, 5.3.11]* 9. Describe the methods through which fire fighting operations can influence fire behavior. *[NFPA® 1001, 5.3.11, 5.3.12]* **PPE** 1. Describe the purpose of personal protective equipment. *[NFPA® 1001, 5.1.1, 5.3.3]* 2. Describe characteristics of each type of personal protective equipment. *[NFPA® 1001, 5.3.2]* 3. Summarize guidelines for the care of personal protective clothing. *[NFPA® 1001, 5.1.1, 5.3.3, 5.5.1]* 4. Explain safety considerations for personal protective equipment. *[NFPA® 1001, 5.3.1]* 5. Identify respiratory hazards. *[NFPA® 1001, 5.3.1]* 6. Identify types of respiratory protection equipment. *[NFPA® 1001, 5.3.1]* 7. Describe the limitations of respiratory protection equipment. *[NFPA® 1001, 5.3.1]* 8. Explain methods for storing respiratory protection equipment. *[NFPA® 1001, 5.5.1]* 9. Describe general donning and doffing considerations for protective breathing apparatus. *[NFPA® 1001, 5.3.1, 5.3.2]* 10. Summarize general considerations for protective breathing apparatus inspections and care. *[NFPA® 1001 5.1.1, 5.5.1]*

	11. Summarize safety precautions for refilling SCBA cylinders. *[NFPA® 5.5.1]* 12. Explain procedures for replacing SCBA cylinders. *[NFPA® 1001 5.3.1]* 13. Explain safety precautions for SCBA use. *[NFPA® 1001 5.3.1]* 14. Describe nonemergency and emergency exit indicators. *[NFPA® 5.3.1]* 15. Describe nonemergency exit techniques. *[NFPA® 1001 5.3.1]* **Portable Fire Extinguishers** 1. Explain portable fire extinguisher classifications. *[NFPA® 1001, 5.3.16]* 2. Describe types of portable fire extinguishers. *[NFPA® 1001, 5.3.16]* 3. Define the ratings in a portable fire extinguisher rating system. *[NFPA® 1001, 5.3.16]* 4. Explain the considerations taken when selecting and using portable fire extinguishers. *[NFPA® 1001, 5.3.16]* 5. Identify procedures used for the inspection, care, and maintenance of portable fire extinguishers. *[NFPA® 1001, 5.3.16, 5.5.1]* NOTE: For practical components, Florida requires extinguishing a Class A fire with APW. The Class B fire should be a minimum of 9 square feet and extinguished with Dry Chem. **Ropes and Knots** 1. Compare and contrast the characteristics of life safety rope and utility rope. *[NFPA® 1001, 5.3.2]* 2. Summarize basic guidelines for rope maintenance. *[NFPA® 1001, 5.5.1]* 3. Explain reasons for placing rope out of service. *[NFPA® 1001, 5.3.20]* 4. Describe webbing and webbing construction. *[NFPA® 1001, 5.3.20]* 5. Describe parts of a rope and considerations in tying a knot. *[NFPA® 1001, 5.1.2, 5.3.20]* 6. Describe knot characteristics and knot elements. *[NFPA® 1001, 5.1.2, 5.3.20]* 7. Describe characteristics of knots commonly used in the fire service. *[NFPA® 1001, 5.1.2, 5.3.20]* 8. Select commonly used rope hardware for specific applications. *[NFPA® 1001, 5.1.2, 5.3.20]* 9. Summarize hoisting safety considerations. *[NFPA® 1001, 5.1.2, 5.3.20]* **Search and Rescue** 1. Summarize the impact of building construction and floor plans on structural search techniques. *[NFPA® 1001, 5.3.9]* 2. Explain size-up and situational awareness considerations during structural searches. *[NFPA® 1001, 5.3.9]* 3. Summarize safety guidelines for structural search and rescue. *[NFPA® 1001, 5.3.9]*

	4. Differentiate between primary and secondary search techniques. *[NFPA® 1001, 5.3.9]* 5. Recognize basic search methods. *[NFPA® 1001, 5.3.9]* 6. Describe victim removal methods. *[NFPA® 1001, 5.3.5, 5.3.9]* 7. Explain firefighter survival methods. *[NFPA® 1001, 5.3.1, 5.3.5, 5.3.9]* 8. Explain what survival actions firefighters can take when needed. *[NFPA® 1001, 5.3.1, 5.3.5]* 9. Describe the actions of a rapid intervention crew or team (RIC/RIT) when locating a downed firefighter. *[NFPA® 1001, 5.3.5, 5.3.9]* **Technical Rescue** 1. Identify types of emergency scene lighting equipment. *[NFPA® 1001, 5.3.17]* **Forcible Entry** 1. Explain the basic principles of forcible entry. *[NFPA® 1001, 5.3.4]* 2. Describe the basic construction of locksets. *[NFPA® 1001, 5.3.4]* 3. Describe considerations a firefighter must take when using forcible entry tools. *[NFPA® 1001, 5.3.4]* 4. Indicate steps needed to care for and maintain forcible entry tools. *[NFPA® 1001, 5.5.1]* 5. Explain the ways to force entry through various types of doors. *[NFPA® 1001, 5.3.4]* 6. Identify considerations that need to be taken when forcing entry through locks, padlocks, overhead doors, and fire doors. *[NFPA® 1001, 5.3.4]* 7. Describe forcible entry methods used for windows. *[NFPA® 1001, 5.3.4]* 8. Explain considerations firefighters must take when forcing entry through miscellaneous types of windows and covers. *[NFPA® 1001, 5.3.4]* 9. Describe forcible entry methods for breaching walls. *[NFPA® 1001, 5.3.4]* 10. Explain forcible entry methods for breaching floors. *[NFPA® 1001, 5.3.4]* 11. Indicate methods for forcing fences and gates. *[NFPA® 1001, 5.3.4]* **Ladders** 1. Describe different construction types of ground ladders. *[NFPA® 1001, 5.3.6, 5.3.11, 5.3.12]* 2. Identify the parts of a ladder including markings and labels. *[NFPA® 1001, 5.3.6, 5.3.11, 5.3.12]* 3. Recognize the types of ladders used in the fire service. *[NFPA® 1001, 5.3.6, 5.3.11, 5.3.12]* 4. Explain the considerations addressed by ladder inspection, cleaning, and maintenance. *[NFPA® 1001, 5.5.1]*

	5. Describe safety guidelines used when handling ladders. *[NFPA® 1001, 5.3.6, 5.3.11, 5.3.12]* 6. Explain considerations taken when selecting, lifting, and lowering a ladder. *[NFPA® 1001, 5.3.6, 5.3.11, 5.3.12]* 7. Describe various methods for ladder carries. *[NFPA® 1001, 5.3.6, 5.3.11, 5.3.12]* 8. Identify basic considerations and requirements for ground ladder placement. *[NFPA® 1001, 5.3.6, 5.3.11, 5.3.12]* 9. Describe various methods for ladder raises. *[NFPA® 1001, 5.3.6, 5.3.11, 5.3.12]* 10. Compare procedures for moving ground ladders. *[NFPA® 1001, 5.3.6, 5.3.11, 5.3.12]* 11. Explain the methods used to secure ladders. *[NFPA® 1001, 5.3.6, 5.3.11, 5.3.12]* 12. Describe ladder climbing considerations. *[NFPA® 1001, 5.3.6, 5.3.11, 5.3.12]* 13. Indicate what methods can be used to work from a ladder. *[NFPA® 1001, 5.3.6, 5.3.11, 5.3.12]* 14. Explain methods used for assisting a victim down a ladder. *[NFPA® 1001, 5.3.6, 5.3.11, 5.3.12]* **Ventilation** 1. Describe reasons for tactical ventilation. *[NFPA® 1001, 5.3.11]* 2. Identify considerations that affect the decision to ventilate. *[NFPA® 1001, 5.3.11, 5.3.12]* 3. Explain the critical fire behavior indicators present during tactical ventilation. *[NFPA® 1001, 5.3.11]* 4. Define horizontal and vertical ventilation. *[NFPA® 1001, 5.3.11]* 5. Explain the means for achieving horizontal and vertical ventilation. *[NFPA® 1001, 5.3.11, 5.3.12]* 6. Describe the types of horizontal ventilation. *[NFPA® 1001, 5.3.11, 5.3.12]* 7. Describe the types of vertical ventilation. *[NFPA® 1001, 5.3.11, 5.3.12]* 8. Recognize other types of ventilation situations. *[NFPA® 1001, 5.3.11]* 9. Explain the effects of building systems on tactical ventilation. *[NFPA® 1001, 5.3.11, 5.3.12]* **Water Supply** 1. Explain the ways water supply system components are used by firefighters. *[NFPA® 1001, 5.3.15]* 2. Describe types of fire hydrants and hydrant markings. *[NFPA® 1001, 5.3.15]* 3. Explain fire hydrant operation and inspection considerations. *[NFPA® 1001, 5.3.15]* 4. Explain alternative water supply sources and methods of access.

	[NFPA® 1001, 5.3.15] 5. Describe methods used for rural water supply operations. *[NFPA® 1001, 5.3.15]* **Hose Handling** 1. Explain basic fire hose characteristics. *[NFPA® 1001, 5.3.8, 5.3.10]* 2. Describe different causes of and prevention methods for hose damage. *[NFPA® 1001, 5.5.2]* 3. Identify basic inspection, care, and maintenance methods for fire hose. *[NFPA® 1001, 5.5.2]* 4. Compare various uses for hose appliances and tools. *[NFPA® 1001, 5.3.8, 5.3.10]* 5. Describe basic hose rolls. *[NFPA® 1001, 5.5.2]* 6. Explain basic hose loads and finishes. *[NFPA® 1001, 5.5.2]* 7. Compare various methods to make preconnected hose loads for attack lines. *[NFPA® 1001, 5.5.2]* 8. Explain the methods used for supply hose lays. *[NFPA® 1001, 5.3.8, 5.3.15]* 9. Recognize different methods for handling hoselines. *[NFPA® 1001, 5.3.8, 5.3.10]* 10. Describe methods for advancing hoselines in various ways. *[NFPA® 1001, 5.3.8, 5.3.10]* 11. List the considerations that can impact operating attack hoselines. *[NFPA® 1001, 5.3.8, 5.3.10]* **Fire Control** 1. Describe initial factors to consider when suppressing structure fires. *[NFPA® 1001, 5.3.8, 5.3.10]* 2. Summarize considerations taken when making entry. *[NFPA® 1001, 5.3.8, 5.3.10]* 3. Describe direct attack, indirect attack, combination attack, and gas cooling techniques. *[NFPA® 1001, 5.3.8, 5.3.10]* 4. Describe safety considerations that must be identified for upper level structure fires. *[NFPA® 1001, 5.3.8, 5.3.10]* 5. Explain actions taken when attacking belowground structure fires. *[NFPA® 1001, 5.3.8, 5.3.10]* 6. Discuss methods of fire control through exposure protection and controlling building utilities. *[NFPA® 1001, 5.3.18]* 7. Describe steps taken when supporting fire protection systems at protected structures. *[NFPA® 1001, 5.3.8, 5.3.10, 5.3.14]* 8. Explain considerations taken when deploying, supplying, and staffing master stream devices. *[NFPA® 1001, 5.3.8]* 9. Describe situations that may require suppression of Class C fires. *[NFPA® 1001, 5.3.8, 5.3.10]* 10. Identify hazards associated with suppressing Class C fires. *[NFPA®*

	1001, 5.3.8, 5.3.10] 11. Describe actions associated with suppressing Class D fires. *[NFPA® 1001, 5.3.8, 5.3.10]* 12. Explain actions taken when suppressing a vehicle fire. *[NFPA® 1001, 5.3.7]* 13. Compare methods used to suppress fires in stacked and piled materials, small unattached structures and trash containers. *[NFPA® 1001, 5.3.8]* 14. Summarize the main influences on ground cover fire behavior. *[NFPA® 1001, 5.3.19]* 15. Compare types of ground cover fires. *[NFPA® 1001, 5.3.19]* 16. Describe elements that influence ground cover fire behavior. *[NFPA® 1001, 5.3.19]* 17. Identify the parts of a ground cover fire. *[NFPA® 1001, 5.3.19]* 18. Describe protective clothing and equipment used in fighting ground cover fires. *[NFPA® 1001, 5.3.19]* 19. Describe methods used to attack ground cover fires. *[NFPA® 1001, 5.3.19]* 20. Summarize safety principles and practices when fighting ground cover fires. *[NFPA® 1001, 5.3.19]* NOTE: Florida Firefighter certification requires the completion of Division of Forestry S130 and S190. This curriculum covers the objectives on fighting ground cover fires. **Loss Control** 1. Explain the philosophy of loss control. *[NFPA® 1001, 5.3.14]* 2. Describe the ways preincident planning impacts loss control. *[NFPA® 1001, 5.3.14]* 3. Determine appropriate salvage procedures. *[NFPA® 1001, 5.3.14]* 4. Compare and contrast different types of salvage covers. *[NFPA® 1001, 5.3.14]* 5. Explain ways to fold, roll, spread, and improvise with salvage covers. *[NFPA® 1001, 5.3.14]* 6. Describe ways to cover openings during salvage operations. *[NFPA® 1001, 5.3.14]* 7. Explain methods used to maintain fire safety during overhaul. *[NFPA® 1001, 5.3.13]* 8. Describe factors that influence locating hidden fires. *[NFPA® 1001, 5.3.10, 5.3.13]* 9. Identify different overhaul procedures. *[NFPA® 1001, 5.3.13]* 10. Indicate the ways a thermal imager can be used during overhaul. *[NFPA® 1001, 5.3.13]* **Fire and Life Safety Initiatives** 1. Explain the steps taken during fire and life safety program development. *[NFPA® 1001, 5.1.1]*

	2. Describe the components involved in fire and life safety program delivery. *[NFPA® 1001, 5.1.1]* 3. Explain the impact of safety hazards, messages, and target audiences on creating fire and life safety education programs. *[NFPA® 1001, 5.1.1]* 4. Indicate ways to identify and prevent firesetter development. *[NFPA® 1001, 5.1.1]* 5. Describe the role of a Firefighter I in enforcing fire and life safety codes. *[NFPA® 1001, 5.1.1]*
Practical Applications	**All JPR's of NFPA 1001 must be successfully demonstrated by the student. In addition the task book must be completed. The initial instructor can sign the first signature when the student successfully completes the skill. At a later date, a separate instructor not involved in the teaching of the skill to the student will observe and sign the task book if the student successfully performs the skill. The task book is located on the Florida State Fire Marshal website under the Bureau of Fire Standards and Training. The following JPR's must be demonstrated during the class.** 1. Don and doff personal protective clothing and prepare for reuse, hoist tools and equipment using ropes and the correct know, and locate information in department documents and standard or code materials. 2. Operate fire department communications equipment, relay information, and record information. 3. Operate fire station telephone and intercom equipment. 4. Operate radio equipment and discriminate between routine and emergency traffic 5. Following AHJ procedures, initiate an emergency call for assistance and demonstrate the ability to use other methods of emergency calls for assistance under vision obscured conditions. 6. Given SCBA and other personal protective equipment, correctly don and wear SCBA, control breathing techniques, enact emergency procedures when the SCBA fails, recognize low-air warnings, assure respiratory protection is not compromised and hazardous areas are exited prior to air depletion. 7. Given an apparatus, respond to an emergency scene wearing appropriate PPE, mounting and dismounting appropriately, assuring seat belts are used and other PPE is correctly used. 8. Given PPE, traffic control and scene devices, structure fire and roadway emergency scenes, traffic hazards and downed electrical wires, establish and operate in work areas following an assignment and SOPS so that PPE is property worn, protected work areas are established and the fire fighter performs assigned tasks only in

	established, protected work areas. 9. Given an assignment, PPE, and tools force entry into a structure using tools as designed, removing the barrier, and assuring the opening is in a safe condition and ready for entry. 10. Given vision-obscured conditions, exit a hazardous area so that a safe haven is found before exhausting the air supply, assuring others are not endangered, and team integrity is maintained. 11. Given various ladders, an assignment and team members as needed, set up ground ladders assessing hazards, stabilizing the ladder, seating the correct angle for climbing, extending ladders to the necessary height with the fly locked and the top placed against a reliable structural component. 12. Given PPE, attack lines and hand tools, attack a passenger vehicle fire as a member of a team so that hazards are avoided, flammable liquids are identified and controlled, and protection from flash fires is maintained, and assuring all vehicle compartments are overhauled and the fire extinguished. 13. Given fires in stacked or piled materials and storage containers, extinguish the fire from the exterior sing attack lines, hand tools and master stream devices protecting exposures and stopping the spread of fire while avoiding collapse hazards, and preserving signs of arson. 14. Operating as a member of a team and under obscured vision conditions, conduct a search and rescue in a structure utilizing appropriate tools, forcible entry techniques, hoses and ladders assuring that all areas are searched, all victims are located and removed and team integrity and safety is maintained. 15. Operating as a member of a team given an attack line, ladders, PPE, tools and an assignment, attack an interior structure fire at grade, above grade and below grade by gaining access, effectively applying water, approaching the fire correctly, finding hidden fires and controlling them, and hazards are recognized and managed. 16. Perform horizontal ventilation assuring that openings are free of obstruction and ventilation devices are correctly placed, and the structure is cleared of smoke. 17. Perform vertical ventilation on a structures with various flat and pitched roofs by creating a specified opening, removing barriers, assuring structural integrity is not compromised, releasing products of combustion. 18. Given PPE, an attack line, hand tools, and a flashlight overhaul a fire scene assuring structural integrity is not compromised, all hidden fires are discovered and fire cause evidence is preserved, and the fire is

	extinguished. 19. Given salvage tools and equipment and an assignment, conserve property so that the building and its contents are protected from future damage. 20. Given supply or intake hose, tools and a fire hydrant r static water source, connect a fire department pumper to a water supply assuring connections are tight and water flow is unobstructed. 21. Given portable fire extinguishers, select the correct extinguisher to extinguish incipient Class A, Class B, and Class C fires assuring the fire is completely extinguished and correct extinguisher handling techniques are followed. 22. Given fire service electrical equipment, illuminate the emergency scene so that designated areas are illuminated and all equipment is operated within the manufacturer's listed safety precautions. 23. Given tools, turn off building utilities in a safe manner. 24. Given PPE as needed, hose lines and extinguishers or hand tools, combat a ground cover fire as a member of a team so that threats to property are reported, threats to personal safety are recognized, retreat is quickly accomplished when needed, and the assignment is completed. 25. Given PPE, tools and ropes, tie a tool for hoisting so that the appropriate knots are used and the tool is secure. 26. Following manufacturer's or department guidelines, clean and check ladders, ventilation equipment, SCBA, ropes, salvage equipment and hand tools assuring maintenance is recorded and equipment is placed in a ready state or reported otherwise. 27. Assures that fire service hose is cleaned inspected and returned to service using water, detergent, tools, and replacement gaskets, noting damage as needed. **<u>The following JPR's from NFPA 472 must be performed during the class.</u>** 1. Perform emergency decontamination. 2. Given tools and equipment, demonstrate how to control activities through absorption, adsorption, damming, diking, dilution, diversion, retention, remote valve shutoff, vapor dispersion, and vapor suppression.