FIRE-1110: FIRE FIGHTER I AND II

Cuyahoga Community College

Viewing: FIRE-1110 : Fire Fighter I and II

Board of Trustees:
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Subject Code
FIRE - Fire Technology

Course Number:
1110

Title:
Fire Fighter I and II

Catalog Description:
The course is designed to give new firefighters basic practical and cognitive training needed to operate safely and effectively on the fireground, as well as advanced firefighter training concepts. The course is the minimum level of training recommended to function as a career firefighter in the State of Ohio. The course focuses on an intense hands-on approach to firefighting, which promotes both skill competency and an understanding of the fireground. Successful completion of the course is required to be eligible to sit for the state examination to be certified at the Firefighter II level.

Credit Hour(s):
12

Lecture Hour(s):
7

Lab Hour(s):
10

Requisites

Prerequisite and Corequisite
Departmental approval: Admission to Fire Academy.

Outcomes

Course Outcome(s):
Explain the organization, mission statement, policies, and procedures of a fire department and explain the role of a Firefighter I within the organization.

Objective(s):
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.
4. Describe the organization of the fire department.
5. Distinguish among functions of fire companies.
6. Summarize primary knowledge and skills the firefighter must have to function effectively.
7. Distinguish among the primary roles of fire service personnel. Describe fire department organizational principles.
8. Locate information in departmental documents and standard or code material.
9. Distinguish between fire department standard operating procedure (SOP) and rules and regulations.
10. Explain the ways the fire service may interact with other organizations.

Course Outcome(s):

Communicate the value of fire and life safety initiatives to reduce line-of-duty deaths and injuries, the importance of maintaining a healthy lifestyle, including physical fitness and behavioral and emotional well-being along with the internal programs and external agencies utilized by the fire department.

Objective(s):

1. List the main types of job-related firefighter fatalities, injuries, and illness.
2. Describe the National Fire Protection Association (NFPA) standards related to firefighter safety and health.
3. Identify Occupational Safety and Health Administration (OSHA) regulations and how they relate to firefighters.
4. Summarize the model that supports the concept of risk management.
5. Describe fire department safety and health programs.
6. Summarize firefighter health awareness issues.
7. Summarize safe vehicle operations.
8. Summarize guidelines for riding safely on the apparatus.
9. Describe ways to help prevent accidents and injuries in fire stations and facilities.
10. Explain general guidelines for tool and equipment safety.
11. Describe ways to maintain safety in training.
12. State the practices a Firefighter I uses for emergency scene preparedness and safety.
13. Summarize general guidelines for scene management including highway incidents, crowd control, and cordoning off emergency scenes.
14. Explain the importance of personnel accountability.
15. Respond to an incident correctly mounting and dismounting an apparatus.
16. Wearing appropriate personal protective equipment(PPE), including reflective vest, demonstrate scene management at roadway incidents using traffic and scene control devices.

Course Outcome(s):

Demonstrate how to don and doff personal protective clothing, perform field reduction of contaminants, prepare clothing for reuse, and locate information using department documents along with standards and code materials.

Objective(s):

1. Describe the purpose of personal protective equipment.
2. Describe characteristics of each type of personal protective equipment.
3. Summarize guidelines for the care of personal protective clothing.
4. Explain the safety considerations for PPE.
5. Identify respiratory hazards.
6. Identify types of respiratory protection equipment.
7. Describe the limitations of respiratory protection equipment.
8. Explain the methods for storing respiratory protection equipment.
9. Describe general doffing and doffing considerations for protective breathing apparatus.
10. Summarize general considerations for protective breathing apparatus inspections and care.
11. Summarize safety precautions for refilling self-contained breathing apparatus (SCBA) cylinders.
12. Explain precautions for refilling SCBA cylinders.
13. Explain procedures for replacing SCBA cylinders.
14. Explain procedures for replacing SCBA cylinders.
15. Explain safety precautions for SCBA use.
16. Describe non-emergency and emergency exit indicators.
17. Describe non-emergency exit techniques.
18. Demonstrate the method for donning structural personal protective clothing for use at an emergency.
19. With structural personal protective clothing in place, demonstrate the over-the-head,coat, and seated methods for donning a SCBA.
20. Doff PPE including respiratory protection and prepare for reuse.
21. Demonstrate the steps for inspecting a SCBA.
22. Demonstrate the steps for cleaning and sanitizing a SCBA.

Course Outcome(s):

Explain the communication process, list different ways of communicating and initiating a response, and demonstrate the use of basic fire department communication equipment to convey emergency and non-emergency information to persons inside and outside of the department.

Objective(s):

1. Explain the procedures for receiving emergency and non-emergency external communications.
2. Describe the information required to dispatch emergency services.
3. Describe the systems used for internal communications.
4. Explain radio limitations that may impact internal communications.
5. Handle emergency and non-emergency calls.
6. Discuss the aspects that make up on-scene communications.
7. Use Portable radio for routine and emergency traffic.

Course Outcome(s):

Explain knowledge of, and demonstrate the ability to wear, operate, and monitor air supply of a self contained breathing apparatus (SCBA), use emergency techniques, procedures, and built-in functions, including warning devices, in case of equipment malfunctions or activation of low air alarm, exit a structure prior to air cylinder depletion, wear protective equipment while mounting, riding, and dismounting fire apparatus, and establish and work safely in designated work areas.

Objective(s):

1. Operate and monitor SCBA air supply.
2. Use emergency SCBA procedures and warning devices.
3. Exit structure prior to air depletion.
4. Wear PPE while mounting/dismounting apparatus.
5. Establish and work safely in designated work areas.

Course Outcome(s):

Identify common methods and perform forcible entry techniques through various types of doors, windows, walls, and locking mechanisms using powered and non-powered equipment and tools.

Objective(s):

1. Explain the basic principles of forcible entry.
2. Describe the basic construction of locksets.
3. List and describe the tools used for forcible entry.
4. Describe considerations a firefighter must take when using a forcible entry tool.
5. Indicate steps needed to care for and maintain forcible entry tools.
6. Explain considerations firefighter must take when forcing entry through various types of windows and covers.
7. Describe forcible entry methods for breaching walls and floors.
8. Indicate methods for forcing fences and gates.
9. Demonstrate ways to force entry through various types of doors.
10. Identify considerations that need to be taken when forcing entry through locks, padlocks, overhead doors, and fire doors.
11. Demonstrate forcible entry methods used for windows.
12. Demonstrate forcible entry methods for breaching walls and floors.
13. Clean, inspect, and maintain hand tools, power tools, and equipment.

Course Outcome(s):

Demonstrate team-based exit from zero-visibility hazardous environment while maintaining air supply and team integrity.

Objective(s):

1. Demonstrate the actions required for withdrawing from a hostile enviroment with a hoseline.
2. Demonstrate the proper procedures for a SCBA air emergency.
3. Demonstrate the actions required for transmitting a MAYDAY report.
4. Demonstrate low profile maneuvers without removing SCBA.

5. Demonstrate the method for breaching an interior wall.
6. Demonstrate the steps for disentangling from debris or wires.

Course Outcome(s):

Explain the knowledge needed and demonstrate the skills required to select, carry, place, raise, extend, climb, and work off of ladders.

Objective(s):

1. Describe construction types of ground ladders.
2. Identify the parts of a ladder including markings and labels.
3. Recognize the types of ladder used in the fire service.
4. Explain the considerations addressed by ladder inspection, cleaning, and maintenance.
5. Describe safety guidelines used when handling ladders.
6. Explain considerations taken when selecting, lifting, and lowering a ladder.
7. Identify basic considerations and requirements for ground ladder placement.
8. Demonstrate the various methods of carrying a ladder.
9. Demonstrate the various methods for raising and lowering a ground ladder.
10. Compare procedures for moving a ground ladder.
11. Demonstrate the methods for securing a ground ladder.
12. Describe ladder climbing considerations.
13. Demonstrate what methods can be used to work from a ladder.
14. Demonstrate methods used for assisting a victim down a ladder.
15. Clean, inspect, and maintain a ladder.

Course Outcome(s):

Explain knowledge of, and demonstrate the performance required to identify multiple hazards associated with vehicle fires, and use the correct techniques for controlling and extinguishing a vehicle fire, including forcing entry into all locked compartments.

Objective(s):

1. Describe the types of motor vehicles.
2. Describe characteristics of vehicle fires.
3. Describe the tactics used to suppress vehicle fires.
4. Describe how to overhaul a vehicle fire.
5. Demonstrate how to attack a passenger vehicle fire.

Course Outcome(s):

Explain the methods and demonstrate the procedures for identifying hazards of stacked or stored materials on fire, controlling and extinguishing fires involving Class "A" stacked/stored materials using hand lines and master stream devices, overhauling stacked and stored materials addressing all safety concerns, locating fire origin and cause, and preserving of evidence.

Objective(s):

1. Compare methods used to suppress fires in stacked and piled materials.
2. Demonstrate how to attack a fire in a stacked or piled material.
3. Describe how the point of origin is determined for a fire scene with stacked and piled materials.
4. Describe how the fire cause is determined for a fire scene with stacked and piled materials.
5. List the types of evidence that may be found at a fire scene for stacked and piled materials.
6. Describe techniques for preserving fire scene evidence for a fire scene with stacked and piled materials.
7. Demonstrate how to protect evidence of a fire cause and origin.

Course Outcome(s):

Explain the methods for, and demonstrate entering a structure using various entry points, performing a comprehensive primary search, rescue/removal of a victim found in an obscured visibility environment, and when appropriate, conducting a secondary search while using appropriate tools and equipment.

Objective(s):

1. Summarize the impact of building construction and floor plans on structural search techniques.
2. Explain size-up and situational awareness considerations during structural searches.
3. Summarize safety guidelines for structural search and rescue.
4. Differentiate between primary and secondary search techniques.
5. Recognize basic search methods.
6. Explain firefighter survival methods.
7. Explain what survival actions firefighters can take when needed.
8. Describe the actions of a Rapid Intervention Team when locating a downed firefighter.
9. Describe the tools used in search and rescue operations.
10. Explain how tools and equipment are staged for rapid access.
11. Conduct a search and rescue in a structure operating as a member of a team, given an assignment, obscured vision conditions, PPE, a flashlight, forcible entry tools, hose lines, and ladders when necessary.
12. Demonstrate the procedures for conducting a primary and secondary search.
13. Demonstrate an incline drag, webbing, drag, cradle-in-arms lift/carry, seat/lift carry, and extremities lift/carry.

Course Outcome(s):

Explain procedures for, and demonstrate the how to deploy, extend, and replace attack lines, enter a structure using various entry points, control and extinguish a fire using effective water application techniques for above grade and below grade fires, maintain team integrity, and conduct an effective overhaul.

Objective(s):

1. Describe initial factors to consider when suppressing structure fires.
2. Summarize considerations taken when making entry.
3. Describe direct attack, indirect attack, combination attack, and gas cooling techniques.
4. Describe safety considerations that must be identified for upper level structure fires.
5. Explain actions taken when attacking below grade structure fires.
6. Describe situations that may require suppression of Class C fires.
7. Identify hazards associated with suppressing Class C fires.
8. Describe actions associated with suppressing Class D fires.
9. Compare methods used to suppress fires in stacked and piled materials, small unattached structures, and trash containers.
10. Describe steps taken when supporting fire protection systems at protected structures.
11. Attach a structure fire using direct, indirect, or combination attack.
12. Attack an interior structure fire from above, below, and at grade level.
13. Attach a fire in a stacked or piled material.

Course Outcome(s):

Identify the hazards associated with a structure needing horizontal and/or vertical ventilation and demonstrate various types of horizontal and vertical ventilation using natural and mechanical means to remove smoke, heat, and toxic gasses from within the structure using appropriate tools, equipment and procedures.

Objective(s):

1. Describe reasons for ventilation.
2. Identify considerations that affect the decision to ventilate
3. Explain the critical fire behavior indicators present during ventilation.
4. Define horizontal and vertical ventilation.
5. Explain the means of achieving horizontal and vertical ventilation.
6. Explain the effects of building systems on ventilation.
7. List the tactical priorities in structural firefighting operations and how the tactical priorities affect ventilation.
8. Describe ventilation using mechanical positive and negative pressure as well as hydraulic ventilation.
9. Perform the following: sound a roof, use a power saw to cut an opening, use an axe to cut an opening, and make a trench cut using a rotary saw.

Course Outcome(s):

Explain the process and demonstrate the procedures for conducting a safe and effective overhaul, without compromising the structure, using appropriate tools, equipment, and procedures to extinguish all fire and protect possible evidence.

Objective(s):

1. Explain methods used to maintain fire safety during overhaul.
2. Describe factors that influence locating hidden fires.
3. Identify different overhaul procedures.
4. Describe the tools needed for overhaul.
5. Indicate the steps needed to care for and maintain tools used for overhaul.
6. Indicate the ways a thermal manager can be used during overhaul.

Course Outcome(s):

Explain the methods and demonstrate the actions required to conduct property conservation by covering unwanted openings, covering/protecting furnishings, stopping or re-routing water flow from sprinkler systems, removing charred materials, protecting scene evidence, and cleaning, inspecting, folding and rolling salvage covers to prepare for reuse.

Objective(s):

1. Explain the philosophy of loss control.
2. Describe the ways pre-incident planning impacts loss control.
3. Determine appropriate salvage procedures.
4. Compare and contrast different types of salvage covers.
5. Describe ways to cover openings during salvage operations.
6. Explain methods used to maintain fire safety during overhaul.
7. Describe factors that influence locating hidden fires.
8. Identify different overhaul procedures.
9. Describe the tools needed for overhaul.
10. Indicate the steps needed to care for and maintain tools used for overhaul.
11. Indicate the ways a thermal manager can be used during overhaul.
12. Explain ways to recognize and preserve area of origin.
13. Explain the relationship between fire cause classifications and cause determination.
14. Clean, inspect, and repair a salvage cover.
15. Roll a salvage cover for one firefighter spread.
16. Fold a salvage cover for one firefighter spread.
17. Fold a salvage cover for a two firefighter spread and a balloon throw.
18. Construct a water chute with and without pike poles.
19. Construct a catchall.
20. Operate a sprinkler system control valve.
21. Operate an air monitor.
22. Recognize air monitor alarms and react accordingly.

Course Outcome(s):

Explain the steps and demonstrate the procedures for connecting supply hose to a hydrant and making a forward and reverse lay, operating a hydrant, and obtaining water from a suitable static water source that includes drafting from a portable water tank.

Objective(s):

1. Explain the ways water supply systems components are used by firefighters.
2. Describe types of fire hydrants and hydrant markings.
3. Explain fire hydrant operation and inspection considerations.
4. Explain alternative water supply sources and methods of access.
5. Describe methods used for rural water and supply operations.
6. Connect supply hose to a hydrant using forward and reverse hydrant lays.
7. Draft from a static water source.
8. Deploy portable water tanks.

Course Outcome(s):

Identify Class A, B, C, and K type fires and relate the fire to the appropriate type of fire extinguisher.

Objective(s):

1. Explain portable fire extinguisher classifications.
2. Describe types of portable fire extinguishers.
3. Define the ratings in a portable fire extinguisher rating system.
4. Explain the considerations taken when selecting and using portable fire extinguishers.
5. Identify procedures used for the inspection, care, and maintenance of portable fire extinguishers.,
6. Transport fire extinguisher to the location of the fire.

Course Outcome(s):

Select the correct fire extinguisher then extinguish a Class A, B, and C type incipient fire.

Objective(s):

1. Extinguish a Class A fire with a stored-pressure water-type fire extinguisher.
2. Extinguish a Class A fire with a multipurpose dry-chemical fire extinguisher.
3. Extinguish a Class B flammable liquid fire with a dry-chemical fire extinguisher.
4. Extinguish a Class B flammable liquid fire with a stored-pressure foam fire extinguisher.
5. Operate a carbon dioxide fire extinguisher.
6. Operate a wet chemical fire extinguisher.

Course Outcome(s):

Explain the process for choosing the appropriate lighting system and placement of the lights for a given fire scene, and demonstrate how to safely illuminate a fire scene.

Objective(s):

1. Identify types of emergency scene lighting equipment.
2. Describe the safety precautions to take when working with lighting equipment.
3. Describe how to operate lighting equipment.
4. Describe equipment maintenance procedures.
5. Demonstrate how to deploy lighting equipment.

Course Outcome(s):

Identify the safety concerns and procedures for turning off the gas, electric, and water supplies to a structure. Demonstrate the procedures for shutting off the utilities.

Objective(s):

1. Discuss methods of fire control through exposure protection and controlling building utilities.
2. Describe common utility systems and their associated risks during fire operations.
3. Recognize indicators of energized utilities and potential hazards to firefighters.
4. Discuss the importance of shutting down utilities to enhance safety and fire control.
5. Identify locations of utility shutoffs.
6. Demonstrate how to safely shut down electrical power at the main disconnect.
7. Demonstrate procedures for controlling gas and water supply during fire suppression.
8. Explain the dangers of electrical arcs, gas leaks, and structural compromise during utility fires.
9. Identify when specialized utility company assistance is required.
10. Describe communication protocols for requesting utility shutdown.
11. Explain the role of utility representatives within the Incident Command System ICS).
12. Demonstrate defensive firefighting techniques for electrical fires until power is isolated.
13. Explain why water streams must be applied using minimum fog patterns and safe distances.
14. Describe strategies for energized utility fires.

15. Demonstrate how to shut off building utilities.
16. Establish exclusion zones around energized equipment.

Course Outcome(s):

Demonstrate proper operation of air monitoring equipment; recognize the alarms, and react to the alarms of the air monitor.

Objective(s):

1. Describe the various uses for an air monitor.
2. Describe the basic operation of an air monitor.
3. Describe the recognition and emergency actions to be taken upon the activation of the high or low level alarm.
4. Operate an air monitor.

Course Outcome(s):

Identify the hazards associated with ground cover fires, identify types and features of ground cover fires, and demonstrate controlling/extinguishing fires using the appropriate fire lines, hose, tools, and water application.

Objective(s):

1. Summarize the main influences on ground cover fires.
2. Describe elements that influence ground cover fire behavior.
3. Identify the parts of a ground cover fire.
4. Describe protective clothing and equipment used in fighting ground cover fires.
5. Describe methods used to attack ground cover fires.
6. Summarize safety principles and practices when fighting ground cover fires.
7. Demonstrate how to attack a ground cover fire.

Course Outcome(s):

Explain the differences, care, maintenance, inspection, and uses for life safety rope compared to utility rope and demonstrate hoisting tools using the appropriate knots.

Objective(s):

1. Compare and contrast the characteristics of life safety rope and utility rope.
2. Summarize basic guidelines for rope maintenance.
3. Explain reasons for placing rope out of service.
4. Describe webbing and webbing construction.
5. Describe parts of a rope and considerations in tying a knot.
6. Describe characteristics of knots commonly used in the fire service.
7. Select commonly used rope hardware for specific applications.
8. Summarize hoisting safety considerations.
9. Inspect, clean, and store rope.
10. Tie the following knots: overhand knot, bowline, clove hitch, clove hitch around an object, rescue knot. figure eight, figure-eight bend, figure-eight on a bight, figure-eight follow through, Becket bend, and water knot.
11. Hoist the following items: axe, pike pole, roof ladder, dry hoseline, charged hoseline, and power saw.

Course Outcome(s):

Explain and demonstrate the proper methods for inspecting, cleaning, maintaining and record keeping for: basic tools and equipment, ladders and ropes,ventilation equipment and hose, and SCBA.

Objective(s):

1. Describe steps needed to care for and maintain basic tools and equipment.
2. Demonstrate techniques for caring for and maintaining basic tools and equipment.
3. Discuss the considerations addressed by ladder inspection, cleaning, and maintenance.
4. Demonstrate how to clean, inspect, and maintain a ladder.
5. Explain basic guidelines for rope maintenance.

6. Demonstrate how to inspect, clean, and store rope.
7. Summarize safety precautions for refilling SCBA cylinders.
8. Explain procedures for replacing SCBA.
9. Demonstrate the steps for inspecting a SCBA.
10. Demonstrate the steps for cleaning and sanitizing a SCBA.
11. Prepare hose for reuse by rolling and reloading into the hose bed.

Course Outcome(s):

Identify and respond to hazardous materials incidents.

Objective(s):

1. Identify common indicators of hazardous materials (placards, labels, container shapes, shipping papers).
2. Explain the significance of the Department of Transportation (DOT) hazard classification system.
3. Describe the potential health, safety, and environmental hazards with hazardous materials incidents.
4. Explain the concept of hazard zones and contamination.
5. Demonstrate how to isolate the area and deny entry.
6. Describe methods for protecting oneself and the public.
7. Identify required information to relay to dispatch and specialized teams.
8. Use appropriate terminology when reporting hazardous conditions.
9. Interpret Safety data Sheets (SDS) and Emergency Response Guidebook (ERG) information.
10. Determine the scope and potential impact of the incident.
11. Identify levels of protection (A, B, C, D,) and their applications.
12. Demonstrate donning and doffing of PPE for hazardous materials operations.
13. Apply techniques such as diking, damming, and diverting to contain spills.
14. Demonstrate vapor suppression and absorption methods.
15. Explain the principles of emergency and technical decontamination.
16. Demonstrate how to set up and operate a decontamination corridor for personnel and equipment.
17. Describe the role of the hazardous materials branch within the Incident Command System (ICS).
18. Complete required reports and exposure documentation.

Course Outcome(s):

Identify conditions and hazards relevant to and describe best practices to ensure safe emergency vehicle operations and demonstrate proper operations of a fire department vehicle, including all fixed systems and equipment on the vehicle.

Objective(s):

1. Describe applicable traffic laws and exemptions for emergency vehicles.
2. Explain the concept of due regard and liability during emergency response.
3. Recognize common causes of collisions involving fire apparatus.
4. Explain how weather, road conditions, and driver behavior affect safety.
5. Perform pre-trip inspections according to department standard operating procedures.
6. Operate the vehicle safely during routine driving and station maneuvers.
7. Explain the importance of speed management and intersection control.
8. Describe procedures for using warning devices (lights and sirens) effectively.
9. Demonstrate safe driving in adverse weather and low-visibility conditions.
10. Apply techniques for negotiating curves, grades, and congested traffic.
11. Explain communication protocols between driver, officer, and dispatch.
12. Demonstrate positioning of apparatus for scene safety and operational efficiency.
13. Apply principles of situational awareness and decision-making under pressure.
14. Identify and mitigate fatigue and stress factors affecting driver performance.
15. Describe procedures for handling apparatus malfunctions during response.
16. Explain actions to take in the event of a collision or near-miss incident.

Course Outcome(s):

Explain and demonstrate the cleaning and maintenance of power plants, power tools, lighting equipment, and hand tools and complete appropriate maintenance records.

Objective(s):

1. Describe how proper cleaning and maintenance affect safety and operational readiness.
2. Identify National Fire Protection Association (NFPA) and departmental guidelines for equipment care.
3. Demonstrate cleaning procedures for hand tools, power tools, and lighting equipment after use.
4. Select appropriate cleaning agents and methods for different materials.
5. Identify signs of wear, damage, or contamination.
6. Document inspection findings according to department SOPs.
7. Explain the importance of correct storage to prevent damage and ensure quick deployment.
8. Demonstrate proper placement of tools on apparatus and in storage areas.
9. Perform lubrication, battery checks, and operational tests according to manufacturer specifications on power tools and lighting equipment.
10. Replace consumable parts for power tools and lighting equipment (e.g. blades, filters, bulbs) safely and correctly.
11. Identify and correct minor malfunctions in power tools and lighting equipment.
12. Explain when to escalate repairs to qualified personnel.
13. Demonstrate safe procedures for inspecting and servicing portable generators and power sources.
14. Verify fuel levels, electrical connections, and grounding requirements for portable generators and power sources.
15. Complete maintenance logs and repair requests accurately.
16. Explain the role of documentation in compliance and liability protection.
17. Clean, inspect, and maintain power tools and equipment.
18. Inspect and maintain a portable generator and lighting equipment.

Course Outcome(s):

Explain and apply the actions required within the Incident Management System (IMS) for distinguish the need for organizing, assuming, and transferring command and apply all applicable NFPA, department, and authority having jurisdiction (AHJ) safety procedures while assuming an assigned roll within the IMS system.

Objective(s):

1. Describe the characteristics of the Incident Command System.
2. Explain the organization of the Incident Command System.
3. Describe how to function in the Incident Command System.
4. Explain the process of initiating incident operations.
5. Organize and coordinate an Incident Command System until command is transferred including assuming command, transferring command within an Incident Command System; and terminating command.

Course Outcome(s):

Identify the information required for completing incident reports, explain the reasons for completing thorough, accurate reports, and demonstrate how to obtain pertinent, accurate information while completing a written or electronically generated incident report.

Objective(s):

1. Explain the information gathered by post incident reports.
2. Describe how to use the National Fire Incident Reporting System Data Entry Tool.
3. Create an incident report.

Course Outcome(s):

Explain and demonstrate providing radio communications addressing the progress and needs of the team/company.

Objective(s):

1. Explain radio limitations that may impact internal communications.
2. Discuss how to handle emergency and non-emergency calls.

3. Discuss the aspects that make up on-scene communications.
4. Use Portable radio for routine and emergency traffic.

Course Outcome(s):

Explain and demonstrate choosing the correct type of foam, using the appropriate method and rate of foam application to extinguish given fires, generating and applying foam to reduce hazards, and selecting and operating various types of nozzles to apply foam.

Objective(s):

1. Describe the methods by which firefighting foam prevents or controls a hazard.
2. Identify foam concentrates.
3. Explain the factors that impact foam expansion and selection.
4. Describe methods by which foam may be proportioned.
5. Explain the advantages and disadvantages of various foam proportioners, delivery services, and generating systems.
6. Identify causes of poor foam production.
7. Distinguish among various foam application techniques.
8. Identify foam hazards and ways to control them.
9. Place a foam line in service.

Course Outcome(s):

Evaluate the fire scene and structure stability, select the appropriate tools and equipment, demonstrate an interior attack on a structure fire, maintaining communication with your team and incident command, performing ventilation, search and rescue of victims, and extinguishing fire located on various levels and grades of the structure.

Objective(s):

1. Describe considerations when coordinating fire-ground operations.
2. Explain fire-ground roles and responsibilities a Firefighter II may need to coordinate.
3. Describe the duties of a unit or team leader during fireground operations.
4. Describe hazards that may be present at fires in under-ground spaces.
5. Establish incident command and coordinate interior attack of a structure fire.

Course Outcome(s):

Explain the procedures and identify hazards, and demonstrate the skills required for evaluating safety concerns, cylinder contents, and cylinder integrity of a cylinder on fire, identifying safe havens, and evacuation procedures, selecting the appropriate tools, equipment, and water application techniques and flow requirements, and evaluating, controlling and extinguishing a flammable cylinder fire.

Objective(s):

1. List safety precautions that should be taken at flammable/combustible liquid fire incidents.
2. Recognize methods used when coordinating operations at a property protected by a fire suppression system.
3. Explain ways to use water control Class B fires.
4. Compare methods used to suppress bulk transport vehicle fires and flammable gas incidents.
5. Control a pressurized flammable gas container fire.
6. Place a foam line in service using an in-line educator.
7. Extinguish an ignitable liquid fire.

Course Outcome(s):

Explain the measures taken and demonstrate the steps required for identifying the origin and cause of a fire, and protecting possible evidence of arson.

Essential Learning Outcome Mapping:

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

Objective(s):

1. Explain the reasoning for conducting a fire investigation.
2. Describe the role of the firefighter, criminal investigators and insurance investigators.
3. Explain the importance of protecting a fire scene to aid in origin and cause determination.
4. Describe the steps needed to secure a property.
5. Describe hot the point of origin is determined.
6. Describe how fire cause is determined.
7. List the types of evidence that may be found at a fire scene.
8. Explain the chain of custody.
9. Describe techniques for preserving fire scene evidence.
10. Describe the evidential items and conditions that may be observed during fire-ground operations.
11. Demonstrate how to protect evidence of a fire cause and origin.
12. Describe the crime of arson.
13. Recognize the signs of arson.
14. Describe the importance of preserving evidence.
15. Explain the techniques for preserving evidence.

Course Outcome(s):

Explain and perform the following: assessing scene safety and stabilization of a vehicle involved in an accident, assessing the vehicle's strong, weak, and access points, using extrication tools and equipment to remove vehicle components to disentangle a victim, and assisting a technical rescue team by retrieving equipment and/or tools and recognizing inherent hazards associated with various types of rescues.

Objective(s):

1. Describe the types of rescue tools and equipment.
2. Explain the uses and limitations of each type of rescue tool.
3. Identify the role of a fire department during vehicle extrication.
4. Describe safety considerations that must be identified and mitigated during vehicle extrication.
5. Explain the use of cribbing material during vehicle extrication.
6. Describe the methods used for gaining access to victims during vehicle extrication.
7. Prevent horizontal movement of a vehicle using wheel chocks.
8. Stabilize a vehicle using cribbing, lifting jacks, ropes/webbing, and a vehicle on its side using a buttress tension system.
9. Remove a windshield, tempered class, roof, and doors.
10. Explain the role of the Firefighter II will play in technical rescue operations.
11. Describe the various types of technical rescue operations.
12. Describe how to safely approach various types of technical rescue operations.
13. Establish a technical rescue incident barrier.
14. Identify and retrieve rescue tools.

Course Outcome(s):

Explain current programs and procedures that target reducing fires and life safety hazards through inspections, education, and public relations, and prepare a fire safety survey on an occupied structure generating recommendations for reducing possible hazards.

Objective(s):

1. Describe how inspections, education, and public interaction reduce fire risk and improve life safety.
2. Identify common fire and life safety hazards found in residential and commercial occupancies.
3. Recognize obvious hazards such as blocked exits, improper storage, and missing smoke alarms and report findings according to department SOPs.
4. Deliver basic fire safety messages.
5. Explain the importance of smoke alarms and residential sprinklers.
6. Describe fire alarm systems.
7. Identify alarm initiating devices.
8. Explain the ways automatic sprinkler systems work.
9. Describe standpipe and hose systems.
10. Explain the ways smoke management systems work.

11. Interact respectfully and effectively with the public during inspections and community events.
12. Explain the firefighter's role in promoting safety and trust.
13. Identify code violations and hazards in various occupancies.
14. Explain corrective actions and document findings accurately.
15. Tailor fire safety messages for specific audiences.
16. Use visual aids and demonstrations to reinforce learning.
17. Demonstrate effective communication and conflict resolution when addressing hazards.
18. Discuss the importance of promoting department programs and resources to the community.

Course Outcome(s):

Discuss the basic presentation skills and knowledge requirements needed for conducting a safety presentation using prepared materials, and demonstrate a safety presentation to a small group of people during a station tour.

Essential Learning Outcome Mapping:

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

Objective(s):

1. Explain the components that must be considered when developing fire and life safety presentations.
2. Recognize considerations that must be addressed when giving presentations to young children and fire station tours.
3. Make a fire and life safety presentation.
4. Conduct a fire station tour.

Course Outcome(s):

Explain and demonstrate how to perform and document preventative maintenance on fire department vehicles.

Objective(s):

1. Describe how routine maintenance ensures operational readiness and safety.
2. Identify National Fire Protection Association (NFPA) and departmental requirements for vehicle inspections.
3. Demonstrate ow to inspect fluid levels (oil, coolant, brake fluid).
4. Check tires, lights, warning devices, and safety equipment for serviceability.
5. Complete standard inspection forms according to department SOPs.
6. Report deficiencies promptly to the officer or maintenance personnel.
7. Inspect engine, transmission, and pump components for leaks or wear.
8. Verify proper operation of emergency lighting, sirens, and communication systems.
9. Demonstrate safe procedures for topping off fluids and replacing filters.
10. Explain battery maintenance and charging protocols.
11. Recognize early warning signs of mechanical problems.
12. Determine when to escalate repairs to qualified mechanics.
13. Document all preventative maintenance actions in compliance with NFPA 1911.
14. Explain the role of record-keeping in liability and warranty protection.

Course Outcome(s):

Explain the procedures for conducting a pre-incident survey and prepare a pre-incident report, use appropriate forms, prepare a diagram of the structure,using common symbols to designate the water supply, fire detection and suppression systems, construction features, and utilities, identify special features and hazards associated with the structure.

Essential Learning Outcome Mapping:

Written Communication: Demonstrate effective written communication for an intended audience that follows genre/disciplinary conventions that reflect clarity, organization, and editing skills.

Objective(s):

1. Describe the role of a Firefighter Ii in planning for and conducting private dwelling fire safety surveys.
2. Describe how a preincident survey is performed.
3. List the information that is gathered during a preincident survey.

4. List the typical target hazards that may be found in a community.
5. Conduct a fire safety survey in an occupied structure.
6. Prepare a pre-incident planning survey.

Course Outcome(s):

Explain the processes and demonstrate the procedures for inspecting, testing, placing hose out-of-service and completing documentation of test results.

Objective(s):

1. Describe different causes of and prevention methods for hose damage.
2. Identify basic inspection, care, and maintenance methods for fire hose.
3. Explain the process of service testing of fire house.
4. Describe the factors in operating and maintaining handline nozzles.
5. Service test a fire house and document results.
6. Discuss process for marking a hose out of service.
7. Replace a burst section of hose.

Course Outcome(s):

Explain fire dynamics and behavior and how those can be influenced by firefighting operations.

Objective(s):

1. Explain the science of fire as it relates to energy, forms of ignition, and models of combustion.
2. Describe the impact of thermal energy on heat, temperature, and heat transfer.
3. Recognize the physical states of fuel.
4. Explain the relationship between oxygen content and life safety.
5. Identify the products of self-sustained chemical reactions.
6. Explain the factors that affect fire development.
7. Recognize signs, causes, and effects of rapid fire development.
8. Describe the methods through which firefighting operations can influence behavior.

Course Outcome(s):

Demonstrate proper hose handling, stream device selection, and deployment and operation techniques.

Objective(s):

1. Explain basic fire hose characteristics.
2. Describe different causes of and prevention methods for hose damage.
3. Compare various sues for hose appliances and tools.
4. Recognize different methods for handling hose lines.
5. List the considerations that can impact operating attach hose lines.
6. Explain the way vaporization and stream relate to the extinguishment properties of water.
7. Identify the factors that create pressure loss or gain.
8. Describe the impact water hammer has on fire streams and prevention of water hammer.
9. Explain fire stream patterns and their possible limiting factors.
10. Describe the three types of fire stream nozzles.
11. Compare different types of nozzle control valves.
12. Describe the factors in operating and maintaining handline nozzles.
13. Describe steps taken when supporting the protection systems of protected structures.
14. Describe the characteristics of the various master stream devices.
15. Explain considerations when deploying, supplying, and staffing master streams.
16. Demonstrate how to couple and uncouple hose.
17. Make a straight hose roll and a doughnut hose roll.
18. Advance a house load
19. Extend a hose line.

20. Operate a fog-stream, broken-stream, and a solid stream nozzle.
21. Make a flat, accordion, horseshoe, pre-connected, triple-layer, and minuteman hose load.
22. Make a forward and reverse hose lay.
23. Deploy a wye-equpped hose during a reverse lay.
24. Advance a charged line into a structure using the line drag, up and down an interior stairway, and up a ladder into a window.
25. Connect hose to a standpipe and advance an attack line onto a floor.
26. Operate a charged hose line from a ladder, a one-firefighter attack line, a one-firefighter large hose line (exposure protection) and a two-firefighter operation of a large attack line.
27. Connect hose to a fire department connection.
28. Deploy and operate a portable master stream device.

Course Outcome(s):

Explain how structures behave under fire conditions.

Objective(s):

1. Describe the impact of fire on common building materials.
2. Explain the impact of fire on construction classifications.
3. List the main types of occupancy classifications.
4. Describe the basic construction of building components.
5. Explain the hazards related to building construction.
6. Recognize the factors that influence structural collapse.

Course Outcome(s):

Explain how to prevent firefighter line-of-duty injury and death.

Objective(s):

1. Understand and describe the key national and local causes of firefighter injuries and fatalities.
2. Recognize the impact of firefighter fatalities on associated groups of people.
3. Understand and describe the 16 Life Safety Initiatives.
4. Develop strategies for turning the 16 Life Safety Initiatives into action steps.
5. Explain the importance of advocacy and implementation of the firefighter life safety initiatives.
6. List resources readily available to fire department personnel.
7. Develop a plan of action for implementation of one or all safety initiatives.

Course Outcome(s):

Explain the role of EMS in the fire service.

Objective(s):

1. Define rehabilitation.
2. Describe how the delivery of EMS fits into the mission of the fire department.
3. List the set of emergency medical skills provided by Basic Life Support (BLS) personnel.
4. List the set of emergency medical skills provided by Advanced Life Support (ALS) personnel.
5. Distinguish between the two types of BLS training.
6. Describe the skills emergency medical technicians are permitted to perform in the field.
7. Distinguish between the two types of ALS training.
8. Identify the types of agencies that provide EMS training.
9. Describe the importance of continuing education in maintaining emergency medical certification.
10. Describe the types of EMS delivery systems.
11. List the advantages of locating the EMS system within the fire department.
12. Define a combination EMS system and describe how it operates in conjunction with the fire department.
13. Define a fire department EMS system and describe its operation.
14. Describe the three types of personal interactions that EMS personnel encounter daily.

15. Describe how the Health Insurance Portability and Accountability Act of 1996 (HIPAA) affects emergency medical providers and patient confidentiality.

Course Outcome(s):

Explain the steps needed to perform basic emergency medical care.

Objective(s):

1. Describe the steps needed to provide infection control for victims and fire fighters.
2. Describe the steps needed to secure a victim's airway.
3. Describe the steps needed to provide rescue breathing to a victim.
4. Describe the steps needed to clear a victim's airway of a foreign obstruction.
5. Describe the steps needed to administer oxygen to victims.
6. Describe the steps needed to use a pulse oximeter.
7. Describe the special considerations to take for victims with stomas, victims with dental appliances, and airway management in a vehicle.
8. Describe the steps needed to perform CPR on adult, child, and infant victims.
9. Describe the steps used to manage shock.
10. Explain the steps needed to control external bleeding.
11. Explain the steps needed to perform basic management of burns.
12. Explain the steps needed to provide manual stabilization of the cervical spine.
13. Discuss triage at a mass-casualty incident.
14. Describe how to ensure safety at emergency medical services (EMS) incidents.

Course Outcome(s):

Demonstrate how to perform basic emergency medical care, CPR, and use an AED.

Objective(s):

1. Proper removal of medical gloves.
2. Clear the airway using finger sweeps.
3. Place a victim in the recovery position.
4. Insert an oral airway.
5. Insert a nasal airway.
6. Perform mouth-to-mask rescue breathing.
7. Perform mouth-to-barrier rescue breathing.
8. Use a bag-mask device with one rescuer.
9. Perform infant rescue breathing.
10. Manage an airway obstruction in an adult.
11. Perform adult chest compressions.
12. Perform one-rescuer adult CPR.
13. Perform two-rescuer adult CPR.
14. Perform one-rescuer infant CPR.
15. Perform automated external defibrillation.
16. Control bleeding with a tourniquet.
17. Stabilize the cervical spine and maintain an open airway.

Methods of Evaluation:

1. Written exams (knowledge-based)
2. Practical skills evaluations (FFI and FFII ODPS Practical Skill Sheets & Tri-C FTA Practical Skill Sheets).
3. Scenario-based performance assessments

Course Content Outline:

1. **Fire Department Organization and Safety**
   a. Fire service history and culture
   b. Chain of command and organizational structure
   c. Mission statements and SOPs/SOGs
   d. NFPA standards overview
   e. Firefighter health and wellness programs
   f. Line-of-duty death statistics and prevention strategies
   g. Life Safety Initiatives
2. **Personal Protective Equipment (PPE) & Documentation**
   a. NFPA 1971 PPE standards
   b. PPE components and inspection
   c. Decontamination procedures
   d. Department documentation (incident reports, SOPs)
   e. Using NFPA codes and standards
3. **III.: Fire Department Communications**
   a. Radio etiquette and procedures
   b. Emergency vs. non-emergency communication
   c. Incident command system (ICS) communication flow
   d. Alarm reporting systems
4. **IV.: SCBA Operations & Fireground Safety**
   a. NFPA 1981 SCBA standards
   b. SCBA donning/doffing
   c. Emergency procedures (low-air alarm, malfunctions)
   d. Safe apparatus operations
   e. Fireground safety zones
5. **Forcible Entry**
   a. Forcible entry tools and techniques
   b. Door and lock construction
   c. Safety considerations
6. **Hazardous Environment Exit**
   a. Search and rescue techniques
   b. Team integrity and accountability
   c. Emergency evacuation procedures
7. **Ladder Operations**
   a. Ladder types and construction
   b. Placement and angle
   c. Climbing and working techniques
8. **Vehicle Fires**
   a. Vehicle fire hazards (fuel, airbags, electrical)
   b. Extinguishment methods
   c. Safety zones
9. **Stacked/Stored Class “A” Fires**
   a. Fire behavior in stacked materials
   b. Extinguishment strategies
   c. Overhaul and investigation basics
10. **Search and Rescue**
    a. Search patterns (right-hand, left-hand, oriented search)
    b. Victim removal techniques
    c. Tools for search and rescue (thermal imaging cameras, hand tools)
    d. Safety considerations in zero visibility
11. **Fire Control & Attack Line Management *(NFPA 1403 applies)***
    a. Hose line deployment and advancement
    b. Water application methods (direct, indirect, combination)
    c. Fire behavior in different structural levels
    d. Overhaul principles
12. **Horizontal Ventilation**

a. Ventilation principles and fire behavior
b. Tools and equipment (fans, smoke ejectors)
c. Safety concerns (backdraft, flashover)

13. **Vertical Ventilation**
    a. Roof construction and load considerations
    b. Cutting techniques (kerf, louver, trench cuts)
    c. Safety on roofs
14. **Overhaul**
    a. Overhaul tools and techniques
    b. Fire cause and origin considerations
    c. Safety during overhaul
15. **Property Conservation**
    a. Salvage operations and priorities
    b. Water control methods
    c. Scene preservation
16. **Water Supply**
    a. Hydrant operations
    b. Hose lays and water supply strategies
    c. Drafting principles
17. **Portable Fire Extinguishers**
    a. Fire classifications
    b. Extinguisher types and operation
    c. PASS technique
18. **Scene Illumination**
    a. Lighting equipment types
    b. Placement strategies
    c. Electrical safety
19. **Utility Control & Air Monitoring**
    a. Utility hazards and shut-off procedures
    b. Air monitoring devices and alarm interpretation
    c. Safety protocols
20. Building Construction
    a. Common building materials
    b. Construction classifications
    c. Occupancy classifications
    d. Basic construction of building components
    e. Hazards related to building construction
    f. Factors that influence structural collapse
21. **Ground Cover Fires**
    a. Wildland fire behavior and terminology
    b. Hazards (wind, terrain, fuel types)
    c. Fire control techniques (direct, indirect attack)
    d. Tools and equipment (pulaski, flapper, hose packs)
22. **Ropes and Knots**
    a. NFPA rope standards
    b. Rope construction and classification
    c. Knots for hoisting (clove hitch, figure-eight, bowline)
23. **Equipment Maintenance & Preparedness**
    a. Maintenance schedules and documentation
    b. Cleaning and storage procedures
    c. Hose rolling and loading techniques
24. **Hazardous Materials Awareness & Operations *(NFPA 1072)***
    a. HazMat recognition and identification (placards, SDS)
    b. PPE selection and donning
    c. Product control techniques (diking, damming, vapor suppression)
    d. Decontamination procedures
25. **Emergency Vehicle Operations & Maintenance *(NFPA 1451 & NFPA 1002)***

a. Vehicle safety and driving principles
b. Preventative maintenance procedures
c. Apparatus systems (pumps, lighting, warning devices)

26. Role of EMS in Fire Service
    a. EMS delivery within the fire department mission
    b. Emergency medical skills provided by BLS personnel
    c. Emergency medical skills provided by ALS personnel
    d. Emergency medical technician scope of practice
    e. Importance of continuing education
    f. EMS delivery systems
    g. Types of Personal interactions for EMS personnel
    h. HIPAA
27. **Basic emergency medical care**
    a. Infection control for victims and fire fighters
    b. Respiratory emergencies
    c. Special considerations
        i. Victims with stomas
        ii. Victims with dental appliances
        iii. Airway management in a vehicle
    d. Cardiopulmonary Resuscitation (CPR)
        i. Adult
        ii. Child
    e. Managing shock
    f. Managing external bleeding
    g. Basic management of burns
    h. Manual stabilization of cervical spine
    i. Triage at Mass casualty incident
    j. Safety at EMS incidents

Religious Accommodation

Before reviewing the course schedule, students should carefully review the following religious accommodation policy and other required instructional policies:

Religious Accommodation:

Students seeking an accommodation for absences permitted under Ohio's Testing Your Faith Act must provide the instructor with written notice of the specific dates for which the student requires an accommodation and must do so not later than fourteen (14) days after the first day of instruction. Please submit requests for accommodations at this link: https://portal2.tri-c.edu/ReligiousAccommodation/ Religious Accommodation Form. Students with questions about their religious accommodations under Ohio's Testing Your Faith Act may contact the College's Office of General Counsel and Legal Services by phone at 216.987.4856 or via email at legal@tri-c.edu.

Other Required Instructional Policies:

https://www.tri-c.edu/student-resources/curriculum/documents/syllabus-part-b.pdf

Weekly Schedule

	Topics
Week 1	Orientation CC FTA Policies & Procedures PPE/SCBA Issued Engine House Policies & Procedures SCBA Face Piece Testing J&B Navigate2 Log-In
Week 2	The Fire Service Fire Fighter Health and Safety FF Rehabilitation Personal Protective Equipment PPE/SCBA Donning and Doffing Drills Ladders Ladders Practical 1

Week 3	Fire Service Communications Establishing and Transferring Command Ladders Practical 2 Water Supply Systems Water Supply Practical Fire Hose, Appliances & Nozzles Fire Hose and Streams Practical 1
Week 4	FF. Tools & Equipment Forcible Entry Tools & Equipment and Forcible Entry Practical Ventilation Ventilation Practical Fire Behavior Fire Hose & Streams Practical 2
Week 5	Ropes & Knots Tech Rescue Support Portable Fire Extinguishers Portable Fire Extinguishers Practical Water Supply Practical Search & Rescue Lecture Search Practical
Week 6	Supply Line and Attack Line Evolutions Fire Hose and Streams Practical 3 Fire Supression Vehicle Fires Practical Vehicle Rescue & Extrication Vehicle Rescue & Extrication Practical
Week 7	AHA BLS CPR Fire and Emergency Medical Care Wildland & Ground Cover Fires Coordinate Interior Fire Attack Adv. F.S. Flammable Gas Fires Advanced Fire Suppression Flammable Gas Fires Practical Building Construction
Week 8	Fire Suppression Practical Stacked/Piled Materials Wildland & Ground Cover Fires
Week 9	Advanced Fire Suppression Foam Advanced Fire Suppression Flammable Liquid Fires Advanced Fire Suppression Practical Foam Flammable Liquid Fires Fire Fighter Survival Fire Fighter Survival Practical Ropes and Knots Practical
Week 10	Scene Lighting & Portable Power Salvage and Overhaul Work on Fire & Emergency Care EMS Research Paper
Week 11	Hazardous Materials Hazardous Materials Practical Courage to Be Safe Program Tri-C Practical Skills Review

Week 12	Emergency Vehicle Operations (EVOC) EVOC Practical PPE/SCBA Practical Tools & Equipment & Forcible Entry Practical Ventilation Practical Fire Protection Systems Fire and Life safety Programs Fire Origin and Cause
Week 13	Live Burn Practical Firefighter Health and safety and Firefighter Rehab Communications Search and rescue Fire Scene: Structure Fires, Interior Attack ICS/Scene Operations Advanced Fire Scene: coordinate Interior Attack Control Utilities
Week 14	Station Maintenance Apparatus & Equipment Clean-up Tri-C Practical Skills Testing
Week 15	Tools/Equipment Test Hydrant Operations Test 5-10 Fire and Life Safety Education Presentations State Practical Skills Testing Review State paperwork
Week 16	State Final Exam Clean Up Return of Gear

The Course Schedule is subject to change due to pedagogical needs, instructor discretion, parts of term, and unexpected events.

Required/Recommended Readings

Fundamentals of Fire Fighter Skills and Hazardous Materials Response which Includes Navigate 2 Preferred Access, International Association of Fire Chiefs; National Fire Protection Association.

Resources for the Instructor

International Fire Service Training Association. *Essentials of Fire Fighting*. 8th ed. International Fire Service Training Association, 2024.

International Fire Service Training Association. *Essentials of Fire Fighting Course Workbook*. 8th ed. International Fire Service Training Association, 2024.

International Association of Fire Chiefs; National Fire Protection Association. *Fundamentals of Fire Fighter Skills and Hazardous Materials Response*. 4th ed. International Association of Fire Chiefs; National Fire Protection Association, 2019.

Additional Resources for the Instructor

International Association of Fire Chiefs. 2025. https://www.iafc.org/.

National Fire Protection Association. 2026. https://www.nfpa.org/

Ohio Department of Public Safety, Division of Ohio Emergency Medical Services. https://ems.ohio.gov/education-and-testing/training-and-education/training-resources (https://ems.ohio.gov/education-and-testing/training-and-education/training-resources/)

FEMA Emergency Management Institute. https://training.fema.gov/is/crslist.aspx?all=true&lang=en (https://training.fema.gov/is/crslist.aspx?all=true&lang=en)

Instructional Services

CTAN Number:

Career Technical Assurance Guide CTFF003 and Industry-Recognized Credential Transfer Assurance Guide ITFF003

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