LAW, PUBLIC SAFETY AND SECURITY (CAREER CLUSTER)

CERTIFICATION-LEVEL FIREFIGHTER I (COURSE)

Course Code: (6214)

NOTE: This course is based on the learning objectives listed in IFSTA's *Essentials of Fire Fighting*, 6th Edition (2013), Stillwater, OK: Fire Protection Publications, Oklahoma State University. These objectives have been further modified by the South Carolina Fire Academy to meet the needs of the South Carolina fire service. In some cases, the numbering of the objectives may be different than in the SCFA curriculum and the textbook, but they address the same concepts and skills.

Course completion alone does not meet the criteria for achieving national certification for Fire Fighter I. National-level firefighter certification testing is separate. The National Fire Protection Association (NFPA) establishes minimum standards for various levels of fire service certification. Requirements for meeting NFPA 1001 (2013), *Standard for Fire Fighter Professional Qualifications*, can be viewed online at NFPA.org. After each objective listed below, the NFPA standard items that correspond to the objective are noted in parentheses.

UNIT A: CHAPTER 1—ORIENTATION AND FIRE SERVICE HISTORY

1. Summarize the history and culture of the fire service. (N/A)
2. Describe the mission and organizational characteristics of the fire service. (5.1.1)
3. Identify the function of various fire company types and line functions in a fire department. (5.1.1)
4. Explain fire service organizational principles. (5.1.1)
5. Describe the function of fire department regulations and standard operating procedures. (5.1.1)
6. Identify external organizations likely to interact with fire departments. (5.1.1)

UNIT B: CHAPTER 2—FIREFIGHTER SAFETY AND HEALTH

1. List the main types of job-related firefighter fatalities, injuries, and illnesses. (5.1.1)
2. Recognize the impact of firefighter fatalities on associated groups of people. (CTBS*)
3. Describe the NFPA and OSHA standards and regulations related to firefighter safety and health. (5.1.1)
4. Summarize the model that supports the concept of risk management. (5.1.1)
5. Describe the 16 Life Safety Initiatives and their importance. (CTBS*)
6. Describe fire department safety and health programs and awareness issues. (5.1.1)
7. Mount and dismount an apparatus. [Skill Sheet 2.1] (5.3.2, 5.3.3)
8. Describe ways to help prevent accidents and injuries in fire stations and facilities. (5.1.1)
9. Explain general guidelines for tool and equipment safety. (5.3.4)
10. Describe ways to maintain safety in training. (5.1.1)
11. State the practices a Firefighter I uses for emergency scene preparedness and safety. (5.1.1. 5.3.3).
12. Perform scene management at a roadway incident. [Skill Sheet 2.2] (5.3.2)
13. Explain the importance of personnel accountability. (5.3.5)

*Added to meet NFFF Courage to Be Safe objectives.

UNIT C: CHAPTER 3—FIRE DEPARTMENT COMMUNICATIONS

1. Describe the information required to dispatch emergency services. (5.2.1, 5.2.2, 5.2.3)
2. Handle emergency and non-emergency calls. [Skill Sheet 3.1] (5.2.1, 5.2.2)
3. Describe the systems used for internal communications. (5.2.1, 5.2.2)
4. Explain radio limitations that may impact internal communications. (5.2.3)
5. Use a portable radio for routine and emergency communications. [Skill Sheet 3.2] (5.2.1, 5.2.3)

UNIT D: CHAPTER 6—FIREFIGHTER PERSONAL PROTECTIVE EQUIPMENT

1. Describe the purpose of personal protective equipment. (5.1.1, 5.3.3)
2. Describe characteristics of each type of personal protective equipment. (5.3.2, 5.3.3)
3. Summarize guidelines for the care of personal protective clothing. (5.1.1, 5.3.3, 5.5.1)
4. Explain safety considerations for personal protective equipment. (5.3.1, 5.3.3)
5. Identify respiratory hazards and types of respiratory protection equipment. (5.3.1)
6. Identify the components of an SCBA. (5.3.1)
7. Describe the limitations of respiratory protection equipment. (5.3.1)
8. Don and doff PPE and free-standing and vehicle-mounted protective breathing apparatus. [Skill Sheets 6.1-6.4]
   - 6.1: Don personal protective clothing. (5.1.2, 5.3.1, 5.3.2, 5.3.3)
   - 6.2: Don PPE/SCBA for use at an emergency. (5.3.1, 5.3.2, 5.3.3)
   - 6.3: Don SCBA while seated. (5.3.1, 5.3.2, 5.3.3)
   - 6.4: Doff personal protective equipment. (5.1.2, 5.3.2, 5.3.3)
9. Inspect and demonstrate proper care for protective breathing apparatus. [Skill Sheet 6.5]
   - 6.5: Inspect an SCBA. (5.3.2, 5.5.1)
10. Summarize safety precautions for refilling SCBA cylinders. (5.5.1)
11. Change an SCBA cylinder. [Skill Sheet 6.6] (5.3.1)
12. Explain safety precautions for SCBA use. (5.3.1)
13. Describe non-emergency and emergency exit indicators and techniques. (5.3.1)

UNIT E: CHAPTER 4—BUILDING CONSTRUCTION

1. Describe the impact of fire on common building materials and classifications and their potential hazards to firefighters. (5.3.4, 5.3.10, 5.3.12)
2. List the main types of occupancy classifications. (N/A)
3. Describe the basic construction of building components. (5.3.4, 5.3.10, 5.3.12)

UNIT F: CHAPTER 5—FIRE BEHAVIOR

1. Explain the science of fire as it relates to energy, forms of ignition, and modes of combustion. (5.3.11)
2. Describe the impact of thermal energy on heat, temperature, and heat transfer. (5.3.12)
3. Recognize the physical states of fuel. (5.3.10)
4. Explain the relationship between oxygen and life safety. (5.3.11)
5. Identify the products of self-sustained chemical reactions. (5.3.11)
6. Explain the factors that affect fire development. (5.3.11)
7. Describe the stages of fire development. (5.3.11)
8. Recognize signs, causes, and effects of rapid fire development. (5.3.11)
9. Describe the methods through which fire fighting operations can influence fire behavior. (5.3.11, 5.3.12)

UNIT G: CHAPTER 7—PORTABLE FIRE EXTINGUISHERS

1. Explain portable fire extinguisher classifications. (5.3.16)
2. Describe types of portable fire extinguishers. (5.3.16)
3. Define the ratings in a portable fire extinguisher rating system. (5.3.16)
4. Explain the considerations taken when selecting and using portable fire extinguishers. (5.3.16)
5. Operate a pressured-water extinguisher. [Skill Sheet 7.1] (5.3.16)
6. Identify procedures used for the inspection, care, and maintenance of portable fire extinguishers. (5.3.16, 5.5.1)

UNIT H: CHAPTER 8—ROPES, WEBBING, AND KNOTS

1. Compare and contrast the characteristics of life safety rope and utility rope. (5.3.20)
2. Summarize basic guidelines for rope maintenance. (5.5.1)
3. Perform an inspection, clean, and store rope. [Skill Sheet 8.1] (5.5.1)
4. Describe webbing and webbing construction. (5.3.20)
5. Describe parts of a rope and considerations in tying a knot. (5.1.2, 5.3.20)
6. Tie knots commonly used in the fire service. [Skill Sheets 8.2-8.10]
   - 8.2: Tie an overhand knot. (5.3.20)
   - 8.3: Tie a bowline knot. (5.3.20)
   - 8.4: Tie a clove hitch. (5.3.20)
   - 8.5: Tie a clove hitch around an object. (5.3.20)
   - 8.6: Tie a figure-eight knot. (5.3.20)
   - 8.7: Tie a figure-eight bend. (5.3.20)
   - 8.8: Tie a figure-eight on a bight. (5.3.20)
   - 8.9: Tie a figure-eight follow through. (5.3.20)
   - 8.10: Tie a water knot. (5.3.20)
7. Describe knot characteristics and knot elements. (5.1.2, 5.3.20)
8. Select commonly used rope hardware for specific applications. (5.1.2, 5.3.20)
9. Summarize hoisting safety considerations. (5.1.2, 5.3.20)
10. Hoist tools and equipment. [Skill Sheets 8.11-8.14] (5.5.1)
    - 8.11: Hoist an axe. (5.1.2, 5.3.20)
    - 8.12: Hoist a pike pole. (5.1.2, 5.3.20)
    - 8.13: Hoist a dry hoseline. (5.1.2, 5.3.20)
    - 8.14: Hoist a charged hoseline. (5.1.2, 5.3.20)

UNIT I: CHAPTER 9—STRUCTURAL SEARCH, VICTIM REMOVAL, AND FIREFIGHTER SURVIVAL

1. Summarize the impact of building construction and floor plans on structural search techniques. (5.3.9)
2. Explain size-up and situational awareness considerations during structural searches. (5.3.9)
3. Summarize safety guidelines for structural search and rescue. (5.3.9)
4. Recognize and explain primary and secondary search techniques. (5.3.9)
5. Perform a primary and secondary search. [Skill Sheets 9.1-9.2]
   - 9.1: Perform a primary search. (5.3.9)
   - 9.2: Perform a secondary search. (5.3.9)
6. Describe victim removal methods. (5.3.5, 5.3.9)
7. Explain firefighter survival methods and actions that are needed. (5.3.1)

8. Describe the actions of a rapid intervention crew or team (RIT/RIC) when locating a downed firefighter. (5.3.9)
9. Demonstrate rescue drags and carries for one and two rescuers. [Skill Sheets 9.3-9.4]
   - 9.3: Perform a webbing drag. (5.3.9)
   - 9.4: Perform an extremities lift/carry – Two-rescuer method. (5.3.9)
10. Transmit a MAYDAY report. [Skill Sheet 9.5] (5.2.4, 5.3.5, 5.3.9)
11. Perform emergency breathing procedures when using an SCBA. [Skill Sheet 9.6] (5.3.1, 5.3.5, 5.3.9)
12. Withdraw from a hostile environment with a hoseline. [Skill Sheet 9.7] (5.3.1, 5.3.5, 5.3.9)
13. Perform low-profile maneuvers with and without SCBA. [Skill Sheet 9.8] (5.3.1, 5.3.5, 5.3.9)
14. Disentangle from debris or wires. [Skill Sheet 9.9] (5.3.5, 5.3.9)

UNIT J: CHAPTER 10—SCENE LIGHTING

1. Identify types of emergency scene lighting equipment. (5.3.17)

UNIT K: CHAPTER 11—FORCIBLE ENTRY

1. Explain the basic principles of forcible entry. (5.3.4)
2. Describe the basic construction of locksets. (5.3.4)
3. Describe considerations when using forcible entry tools. (5.3.4)
4. Inspect and maintain forcible entry tools. [Skill Sheets 11.1-11.2]
   - 11.1: Inspect and maintain hand tools and equipment. (5.5.1)
   - 11.2: Inspect and maintain power tools and equipment. (5.5.1)
5. Explain considerations when forcing entry through various types of doors and locks. (5.3.4)
6. Force entry through various types of doors. [Skill Sheets 11.3-11.4]
   - 11.3: Force entry through an inward-swinging door. (5.3.4, 5.3.14)
   - 11.4: Force entry through an outward-swinging door. (5.3.4, 5.3.14)
7. Force entry through locks, padlocks, overhead doors, and fire doors. [Skill Sheets 11.5-11.6]
   - 11.5: Force entry using the through-the-lock method. (5.3.4, 5.3.14)
   - 11.6: Force entry through a padlock. (5.3.4, 5.3.14)
8. Explain considerations when forcing entry through various types of windows and covers.
9. Force entry through a window. [Skill Sheet 11.7]
10. Describe forcible entry methods for breaching walls. (5.3.4, 5.3.14)
11. Explain forcible entry methods for breaching floors. (5.3.4, 5.3.14)

UNIT L: CHAPTER 12—GROUND LADDERS

1. Describe the construction and identify the parts of ground ladders. (5.3.6)
2. Recognize the types of ladders used in the fire service. (5.3.6)
3. Clean, inspect, and maintain a ladder. [Skill Sheet 12.1] (5.5.1)
4. Explain safety considerations when selecting, lifting, and lowering a ladder. (5.3.6)
5. Perform various ladder carries and raises. [Skill Sheets 12.2-12.5]
   - 12.2: Perform a one-firefighter ladder raise. (5.3.6, 5.3.11, 5.3.12)
   - 12.3: Perform a two-firefighter carry and flat raise. (5.3.6, 5.3.11, 5.3.12)
   - 12.4: Perform a two-firefighter carry and beam raise. (5.3.6, 5.3.11, 5.3.12)
   - 12.5: Deploy a roof ladder. (5.3.11, 5.3.12)
6. Demonstrate procedures for moving and placing a ground ladder. [Skill Sheet 12.6]
7. Explain the methods used to secure ladders. (5.3.6)
8. Describe ladder climbing considerations. (5.3.6)

9. Remove and assist victims down a ladder. [Skill Sheets 12.7-12.9]
   - 12.7: Leg lock on a ground ladder. (5.3.11, 5.3.12)
   - 12.8: Assist a conscious victim down a ground ladder. (5.3.9)
   - 12.9: Assist an unconscious victim down a ground ladder. (5.3.9)

UNIT M: CHAPTER 13—TACTICAL VENTILATION

1. Describe reasons for tactical ventilation. (5.3.11)
2. Identify considerations that affect the decision to ventilate. (5.3.11, 5.3.12)
3. Explain the critical fire behavior indicators present during tactical ventilation. (5.3.11)
4. Define horizontal and vertical ventilation. (5.3.11)
5. Explain the means for achieving horizontal and vertical ventilation. (5.3.11, 5.3.12)
6. Describe the types of horizontal and vertical ventilation. (5.3.11, 5.3.12)
7. Recognize other types of ventilation situations, including building systems and their effects. (5.3.11, 5.3.12)
8. Perform positive pressure ventilation. [Skill Sheet 13.1]
9. Demonstrate various techniques for vertical ventilation. [Skill Sheets 13.2-13.3]
   - 13.2: Ventilate using a power saw. (5.3.12)
   - 13.3: Ventilate using an axe. (5.3.12)

UNIT N: CHAPTER 14—WATER SUPPLY

1. Explain the ways water supply system components are used by firefighters. (5.3.15)
2. Describe types of fire hydrants and hydrant markings. (5.3.15)
3. Explain fire hydrant operation and inspection considerations. (5.3.15)
4. Explain alternative water supply sources and methods of access. (5.3.15)
5. Operate and connect to a hydrant. [Skill Sheet 14.1-14.2]
   - 14.1: Operate a hydrant. (5.3.15)
   - 14.2: Make a soft-sleeve hydrant connection. (5.3.15)
6. Perform the methods used for rural water supply operations. [Skill Sheet 14.3-14.4]
   - 14.3: Perform a hard-suction hose connection for drafting. (5.3.15)
   - 14.4: Deploy a portable water tank. (5.3.15)

UNIT O: CHAPTER 15—FIRE HOSE

1. Explain basic fire hose characteristics. (5.3.8, 5.3.10)
2. Describe different causes of and prevention methods for hose damage. (5.5.2)
3. Identify basic inspection, care, and maintenance methods for fire hose. (5.5.2)
4. Inspect and maintain a fire hose. [Skill Sheet 15.1] (5.5.2)
5. Compare various uses for hose appliances and tools. (5.3.8, 5.3.10)
6. Describe basic hose rolls. (5.5.2)
7. Perform hose rolls. [Skill Sheets 15.2-15.3]
   - 15.2: Make the straight hose roll. (5.5.2)
   - 15.3: Make the donut hose roll. (5.5.2)
8. Explain basic hose loads and finishes. (5.5.2)
9. Make hose loads. [Skill Sheets 15.4-15.5]
   - 15.4: Make the flat hose load. (5.5.2)
   - 15.5: Make the accordion hose load. (5.5.2)

10. Describe and compare various methods to make pre-connected hose loads for attack lines. (5.5.2)
11. Make pre-connected hose loads for attack lines. [Skill Sheets 15.6-15.7]
    - 15.6: Make the pre-connected flat hose load. (5.5.2)
    - 15.7: Make the triple-layer hose load. (5.5.2)
12. Explain the methods used for supply hose lays. (5.3.8, 5.3.9)
13. Perform supply hose lays. [Skill Sheets 15.8-15.9]
    - 15.8: Make a hydrant connection from a forward hose lay. (5.5.2)
    - 15.9: Make the reverse hose lay from an attack pumper. (5.5.2)
14. Describe and compare different methods for handling hoselines. (5.3.8, 5.3.10)
15. Describe methods for advancing hoselines in various ways. (5.3.8, 5.3.10)
16. Advance hoselines using various methods. [Skill Sheets 15.10-15.20]
    - 15.10: Advance a hose load. (5.3.10)
    - 15.11: Advance a charged hoseline using the working line drag method. (5.3.10)
    - 15.12: Advance a line into a structure. (5.3.10)
    - 15.13: Advance a line up and down an interior stairway. (5.3.10)
    - 15.14: Connect a stairway standpipe and advance an attack hoseline onto a floor. (5.3.10)
    - 15.15: Advance an uncharged line up a ladder into a window. (5.3.10)
    - 15.16: Advance a charged line up a ladder into a window. (5.3.10)
    - 15.17: Operate a charged attack line from a ladder. (5.3.10)
    - 15.18: Operate a large hoseline for exposure protection (one-firefighter method). (5.3.10)
    - 15.19: Operate a large hoseline (two-firefighter method). (5.3.15)
    - 15.20: Extend a hoseline. (5.3.10)
17. List the considerations that can impact operating attack hoselines. (5.3.10)
18. Replace a burst hoseline. [Skill Sheet 15.21] (5.3.10)

UNIT P: CHAPTER 16—FIRE STREAMS

1. Explain the way vaporization and steam relate to the extinguishing properties of water. (5.3.10)
2. Identify the factors that create pressure loss or gain. (5.3.10)
3. Describe the impact water hammer has on fire streams. (5.3.10)
4. Explain fire stream patterns and their possible limiting factors. (5.3.10)
5. Describe the three types of fire stream nozzles. (5.3.10)
6. Compare the different types of nozzle control valves. (5.3.10)
7. Describe the factors in operating and maintaining handline nozzles. (5.3.10)
8. Operate and maintain handline nozzles. [Skill Sheets 15.4-15.7]
    - 15.4: Operate and maintain a flat hose load. (5.5.2, 5.3.10)
    - 15.5: Operate and maintain an accordion hose load. (5.5.2, 5.3.10)
    - 15.6: Operate and maintain a preconnected flat hose load. (5.5.2, 5.3.10)
    - 15.7: Operate and maintain a triple-layer hose load. (5.5.2, 5.3.10)

UNIT Q: CHAPTER 17—FIRE CONTROL

1. Describe initial factors and considerations when suppressing structure fires. (5.3.8, 5.3.10)
2. Perform direct, indirect and combination attacks and gas cooling techniques. [Skill Sheets 17.1-17.3] (5.3.8, 5.3.10, 5.3.13)
    - 17.1: Perform a direct fire attack.
    - 17.2: Perform an indirect fire attack.

- 17.3: Perform combination and gas cooling fire attacks.

3. Perform safety procedures for upper level and below ground structure fires. [Skill Sheet 17.4] (5.3.8, 5.3.10, 5.3.13)
4. Turn off and/or control building utilities. [Skill Sheet 17.5] (5.3.18)
5. Support fire protection systems at protected structures. [Skill Sheets 17.6-17.8]
   - 17.6: Connect hoseline to a Fire Department Connection (FDC). (5.3.8, 5.3.10, 5.3.14, 5.3.15)
   - 17.7: Operate a sprinkler system control valve. (5.3.8, 5.3.10, 5.3.14)
   - 17.8: Stop the flow of water from a sprinkler head. (5.3.8, 5.3.10, 5.3.14)
6. Deploy, supply, and operate master stream devices. [Skill Sheet 17.9] (5.3.8)
7. Describe and identify situations and hazards with suppressing Class C fires. (5.3.8, 5.3.10)
8. Describe actions associated with suppressing Class D fires. (5.3.8, 5.3.10)
9. Suppress a vehicle fire. [Skill Sheet 17.10] (5.3.7)
10. Compare methods used to suppress fires in stacked and piled materials, small unattached structures, and trash containers. (5.3.8)
11. Compare the types and influences on ground cover fires. (5.3.19)
12. Summarize safety principles and practices when fighting ground cover fires. (5.3.19)

UNIT R: CHAPTER 18—LOSS CONTROL

1. Explain the philosophy of loss control. (5.3.14)
2. Describe the ways pre-incident planning impacts loss control. (5.3.14)
3. Determine appropriate salvage procedures. (5.3.14)
4. Compare and contrast different types of salvage covers. (5.3.14)
5. Fold, roll, spread, and improvise with salvage covers. [Skill Sheets 18.1-18.11]
   - 18.1: Clean, inspect, and repair a salvage cover. (5.3.14)
   - 18.2: Roll a salvage cover. (5.3.14)
   - 18.3: Spread a rolled salvage cover. (5.3.14)
   - 18.4: Fold a salvage cover for a one-firefighter spread. (5.3.14)
   - 18.5: Spread a folded salvage cover – One-firefighter method. (5.3.14)
   - 18.6: Fold a salvage cover for a two-firefighter spread. (5.3.14)
   - 18.7: Spread a folded salvage cover – Two-firefighter balloon throw. (5.3.14)
   - 18.8: Construct a water chute without pike poles. (5.3.14)
   - 18.9: Construct a water chute with pike poles. (5.3.14)
   - 18.10: Construct a catchall. (5.3.14)
   - 18.11: Make a chute and attach it to a catchall. (5.3.14)
6. Describe ways to cover openings during salvage operations. (5.3.14)
7. Explain methods used to maintain fire safety during overhaul. (5.3.13)
8. Describe factors that influence locating hidden fires. (5.3.13)
9. Locate and extinguish hidden fires. [Skill Sheet 18.12] (5.3.13)
10. Explain the ways a thermal imager can be used during overhaul. (5.3.13)

UNIT S: CHAPTER 19—FIRE ORIGIN AND CAUSE DETERMINATION

1. Explain obvious signs of the area of origin. (5.3.8, 5.3.14)
2. Describe the relationship between fire cause classifications and cause determination.
3. Recognize signs of arson. (5.3.13)
4. Describe the importance of preserving evidence and explain the techniques for preserving evidence. (5.3.14)

UNIT T: CHAPTER 21—FIRE AND LIFE SAFETY INITIATIVES

1. Explain the steps taken during fire and life safety program development. (5.1.1)
2. Describe the components involved in fire and life safety program delivery. (5.1.1)
3. Explain the impact of safety hazards, messages, and target audiences on creating fire and life safety education programs. (5.1.1)
4. Indicate ways to identify and prevent firesetter development. (5.1.1)
5. Describe the role of a Firefighter I in enforcing fire and life safety codes. (5.1.1)

LAW, PUBLIC SAFETY AND SECURITY (CAREER CLUSTER)

CERTIFICATION-LEVEL FIREFIGHTER II (COURSE)

Course Code: (6415)

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UNIT A: CHAPTER 3—FIRE DEPARTMENT COMMUNICATIONS

1. Describe the components of on-scene communications. (6.2.2)
2. Describe the types of information gathered by post-incident reports. (6.2.1)
3. Create an incident report. [Skill Sheet 3.1] (6.2.1)

UNIT B: CHAPTER 4—BUILDING CONSTRUCTION

1. Explain the hazards related to a building's construction. (6.3.2)
2. Recognize the factors that influence the potential of a structural collapse. (6.3.2)

UNIT C: CHAPTER 10—SCENE LIGHTING, RESCUE TOOLS, VEHICLE EXTRICATION, AND TECHNICAL RESCUE

NOTE: Chapter 10 objectives have been embedded in SCFA's Basic Auto Extrication course.

1. Inspect, service, and demonstrate procedures for maintaining generators and lighting equipment. [Skill Sheet 10.1] (6.5.4)
2. Describe the types, uses, and limitations of rescue tools and equipment. (6.4.2, 6.5.4)
3. Identify the role of a fire department during vehicle extrication. (6.4.1)
4. Describe safety considerations that must be identified and mitigated during vehicle extrication. (6.4.1)
5. Explain the use of cribbing material during vehicle extrication. (6.4.1)
6. Describe the methods used for gaining access to victims during vehicle extrication. (6.4.1)
7. Describe the role of the Firefighter II during various types of technical rescue operations. (6.4.2)
8. Explain the unique hazards associated with each type of technical rescue operation. (6.4.2)
9. Prevent movement of a vehicle using stabilization techniques. [Skill Sheets 10.2-10.6]
   - 10.2: Stabilize a vehicle using wheel chocks. (6.4.1)
   - 10.3: Stabilize a vehicle using cribbing. (6.4.1)
   - 10.4: Stabilize a vehicle using lifting jacks. (6.4.1)

- 10.5: Stabilize a vehicle using ropes and webbing. (6.4.1)
- 10.6: Stabilize a vehicle using a tension system. (6.4.1)

10. Remove and safely manage vehicle glass. [Skill Sheets 10.7-10.8]
    - 10.7: Remove a windshield. (6.4.1)
    - 10.8: Remove a tempered glass side window. (6.4.1)
11. Remove a vehicle roof and door. [Skill Sheets 10.9-10.10]
    - 10.9: Remove a door and roof from a vehicle. (6.4.1)
    - 10.10: Remove the roof from a vehicle on its side. (6.4.1)
12. Displace a vehicle dashboard. [Skill Sheet 10.11] (6.4.1)

UNIT D: CHAPTER 15—FIRE HOSE

1. Describe the safety considerations taken when service testing a fire hose. (6.5.5)
2. Service test a fire hose. [Skill Sheet 15.1] (6.5.5)

UNIT E: CHAPTER 16—FIRE STREAMS

1. Describe the methods by which firefighting foam prevents or controls a hazard. (6.3.1)
2. Identify and explain foam concentrates and factors that impact selection. (6.3.1)
3. Describe methods by which foam may be proportioned. (6.3.1)
4. Explain the advantages and disadvantages of various foam proportioners, delivery devices, and generating systems. (6.3.1, 6.3.2)
5. Identify causes of poor foam production. (6.3.1, 6.3.2)
6. Perform various foam application techniques. [Skill Sheet 16.1] (6.3.1, 6.3.2)
7. Extinguish a flammable liquid fire. [Skill Sheet 16.2] (6.3.1)

UNIT F: CHAPTER 17—FIRE CONTROL

1. Describe considerations taken when coordinating fireground operations.
2. Command, control, and coordinate a structure fire. [Skill Sheet 17.1]
3. Discuss the process of establishing and transferring Command.
4. Describe hazards that may be present at fires in underground spaces.
5. List safety precautions to be taken at flammable/combustible liquid fire incidents.
6. Recognize methods used when coordinating operations at a property protected by a fire suppression system.
7. Explain ways to use water to control Class B fires.
8. Perform methods used to suppress bulk transport vehicle fires and flammable gas incidents. [Skill Sheet 17.2]

UNIT G: CHAPTER 19—FIRE ORIGIN AND CAUSE DETERMINATION

1. Describe evidence indicating the area of origin or fire cause. (6.3.4)
2. Explain the roles and responsibilities of responders and investigators involved in fire investigations. (6.3.4)
3. Explain the legal implications of the location and collection of evidence during a fire investigation. (6.3.4)
4. Protect evidence of fire cause and origin. [Skill Sheet 19.1] (6.3.4)

UNIT H: CHAPTER 20—FIRE PROTECTION SYSTEMS

1. Describe fire alarm systems. (6.5.3)
2. Identify alarm initiating devices. (6.5.3)
3. Explain how automatic sprinkler systems work. (6.5.3)
4. Describe standpipe and hose systems. (6.5.3)

UNIT I: CHAPTER 21—FIRE AND LIFE SAFETY INITIATIVES

1. Describe the role of a Firefighter II in planning for and conducting private dwelling fire safety surveys. (6.5.1)
2. Explain the components and audience considerations when developing and giving a fire and life safety presentation. (5.5.2)
3. Develop and give a fire and life safety presentation and fire station tour. [Skill Sheets 21.2-21.3]
   - 21.2: Develop and give a fire and life safety presentation. (6.5.1, 6.5.2)
   - 21.3: Conduct a fire station tour. (6.5.1, 6.5.2)
4. Prepare and conduct a pre-incident planning survey. [Skill Sheets 21.1, 21.4]
   - 21.1: Conduct a fire safety survey. (6.5.1)
   - 21.4: Prepare a pre-incident planning survey. (6.5.1, 6.5.3)