

# Module 3: Firefighter I

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## SECTION 1 FIRE DEPARTMENT ORGANIZATION

*There are no objectives required for this certification level.*

## SECTION 2 FORCIBLE ENTRY

*There are no objectives required for this certification level.*

## SECTION 3 FIRE SERVICE LADDER PRACTICES

- 3-I.10** Trainee shall identify the materials used in ladder construction and list the advantages and disadvantages of each type of material.  
**NFPA 1001 5.3.6 / SFFMA (3-02.01)**  
A. Metal ladder construction  
B. Wooden ladder construction  
C. Fiberglass ladder construction
- 3-I.11** Trainee shall identify the safety features of the following types of ladders:  
**SFFMA (3-02.02)**  
A. Ground  
1. Metal ladder  
2. Wood ladders  
3. Fiberglass ladders  
B. Aerial (if found in the AHJ)
- 3-I.12** Trainee shall identify, describe, and demonstrate inspection and maintenance procedures for different types of ground ladders.  
**NFPA 1001 5.5.1 / SFFMA (3-02.03)**  
A. Trainee shall identify the requirements pertaining to the frequency of inspection and maintenance of ground ladders.  
B. Trainee shall describe and demonstrate the inspection and maintenance procedures for ground ladders, according to NFPA 1932.  
1. Metal ground ladders  
2. Wood ground ladders  
3. Fiberglass ground ladders
- 3-I.13** Trainee shall identify and explain the annual service test for ground ladders.  
**NFPA 1001 5.5.1 / SFFMA (3-03.02)**
- 3-I.14** Trainee shall, with or without a safety harness, climb the usable length of each type of ground and aerial ladder available to the AHJ and demonstrate:  
**NFPA 1001 5.3.10, 5.3.12 / SFFMA (3-03.05)**  
A. Carrying fire fighting tools or equipment, while ascending or descending.  
B. Bringing an injured person down.  
C. The techniques of working from ground and aerial ladders with tools and appliances.

## SECTION 4 FIRE HOSE PRACTICES

*There are no objectives required for this certification level.*

## SECTION 5 SALVAGE AND OVERHAUL

- 5-I.10** Trainee, given salvage equipment, operating as an individual and as a member of a team, shall demonstrate the following skills:  
**NFPA 1001 5.3.14 / SFFMA (5-02.01)**  
**(Document with Salvage #8 skillsheet found in appendix and retain on file)**  
A. use of a water chute  
B. construction of a water chute  
C. use of a water catchall  
D. construction of a water catchall

- 5-I.11 Trainee shall demonstrate the removal of debris, and removal and routing of water from a structure using the following techniques.  
**NFPA 1001 5.3.13, 5.3.14 / SFFMA (5-02.02)**  
**(Document with Salvage #8 skillsheet found in appendix and retain on file)**  
 A. Water vacuums D. Brooms and squeegees  
 B. Existing drains E. Buckets, mops, and shovels  
 C. Portable pumps
- 5-I.12 Trainee shall demonstrate and describe the covering or closing of the following building openings made during fire fighting operations.  
**NFPA 1001 5.3.13 / SFFMA (5-02.03)**  
**(Document with Salvage #8 skillsheet found in appendix and retain on file)**  
 A. Roofs C. Windows  
 B. Doors D. Floors
- 5-I.13 Trainee shall list the procedures to follow during overhaul.  
**NFPA 1001 5.3.13 / SFFMA (5-02.04)**
- 5-I.14 Trainee shall identify the safety precautions necessary during overhaul.  
**NFPA 1001 5.3.13 / SFFMA (5-02.05)**
- 5-I.15 Trainee shall identify precautions to be followed when overhauling targeted hazards.  
**NFPA 1001 5.3.13 / SFFMA (5-03.02)**  
 A. Trainee shall identify and describe the necessary precautions to maintain safety of firefighters and others during overhaul.  
 B. Trainee shall describe appropriate safety equipment and clothing for performing overhaul activities.  
 C. Trainee shall describe hazards associated with overhaul operations.
- 5-I.16 Trainee shall list four (4) indicators of fire in walls or ceilings.  
**NFPA 1001 5.3.13 / SFFMA (5-03.03)**  
 A. Sight C. Sound  
 B. Touch D. Electronic instruments
- 5-I.17 Trainee shall demonstrate restoration of the premises after a fire.  
**NFPA 1001 5.3.14 / SFFMA (5-03.05)**  
 A. Restoring fire protection systems C. Deodorizing the premises  
 B. Restoring utility services D. Releasing the premises

## **SECTION 6 FIRE STREAMS**

- 6-I.10 Trainee shall describe the operating principles of fog and solid stream nozzles.  
**NFPA 1001 5.3.10 / SFFMA (6-02.01)**
- 6-I.11 Trainee shall describe the advantages and disadvantages of solid and fog streams.  
**NFPA 1001 5.3.10 / SFFMA (6-02.02)**
- 6-I.12 Trainee shall identify four (4) special stream nozzles and demonstrate at least two (2) uses or applications for each.  
**SFFMA (6-02.03)**
- 6-I.13 Trainee shall identify three (3) observable results that are obtained when proper application of a fire stream is accomplished.  
**NFPA 1001 5.3.10.A / SFFMA (6-02.05)**
- 6-I.14 Trainee shall identify three (3) types of fire streams and shall demonstrate each.  
**NFPA 1001 5.3.10.A / SFFMA (6-02.06)**  
 A. Solid  
 B. Fog  
 C. Broken
- 6-I.15 Trainee shall diagram the types of fog nozzles, identify the major parts, and trace water flow through each.  
**NFPA 1001 5.3.10.A / SFFMA (6-03.08)**
- 6-I.16 Trainee, given a selection, pictures or diagrams, of nozzles and tips, shall identify the type, design, operation, nozzle pressure, and flow of each.  
**NFPA 1001 5.3.10.A / SFFMA (6-03.09)**
- 6-I.17 Trainee shall identify the rate of water flow necessary to control fire in a room of specified volume.  
**SFFMA (6-03.10)**

## **SECTION 7 APPARATUS FAMILIARIZATION**

*There are no objectives required for this certification level.*

## SECTION 8 VENTILATION PRACTICES

*There are no objectives required for this certification level.*

## SECTION 9 RESCUE OPERATIONS

**9-I.05** Trainee, operating as a member of a team, shall demonstrate the proper techniques and safety procedures as they apply to the following rescue activities:

**SFFMA (9-03.01)**

**(Document with Rescue #7 skillsheet found in appendix and retain on file)**

- |                              |   |
|------------------------------|---|
| A. structural collapses      | F. emergencies involving energized electrical lines   |
| B. trench collapses          | G. industrial accidents                               |
| C. caves and tunnels         | H. motor vehicle accidents                            |
| D. water and ice emergencies | I. other hazards particular to the local jurisdiction |
| E. elevators and escalators  |   |

**9-I.06** Trainee, given 20' tubular webbing, shall demonstrate the proper tying of a Swiss seat.

**SFFMA (9-03.02)**

**9-I.07** Trainee, given the proper information, shall list the equipment needed to complete rappelling procedure.

**SFFMA (9-03.03)**

**9-I.08** Trainee, given a 20' length of ½" rope, shall demonstrate the following knots as used in repelling:

**NFPA 1001 5.1.1 / SFFMA (9-03.04)**

- |                                |                |
|--------------------------------|----------------|
| A. figure-eight                | D. clove hitch |
| B. figure-eight follow through | E. half-hitch  |
| C. bowline                     |                |

**9-I.09** Trainee shall identify the techniques of removing debris, rubble, and other materials found at a cave-in and list the precautions to be taken when constructing rescue shafts and tunnels where large debris is involved.

**SFFMA (9-03.05)**

**(Document with Rescue #7 skillsheet found in appendix and retain on file)**

**9-I.10** Trainee, given the proper information, shall define the following:

**SFFMA (9-03.06)**

- A. lean-to collapse
- B. pancake floor collapse
- C. v-floor collapse

## SECTION 10 FIRST AID

*There are no objectives required for this certification level.*

## SECTION 11 INSPECTION PRACTICES

**11-I.01** Trainee shall identify the common causes of fires and their prevention.

**NFPA 1001 5.5.1 / SFFMA (11-01.01)**

- |                           |                                   |
|---------------------------|-----------------------------------|
| A. Housekeeping practices | C. Open burning                   |
| B. Smoking                | D. Electrical sources of ignition |

**11-I.02** Trainee shall identify school exit drill procedures.

**SFFMA (11-02.03)**

**11-I.03** Trainee shall identify life safety programs for the home.

**SFFMA (11-02.04)**

**11-I.04** Trainee shall identify local and state fire codes concerning subjects to be noted in the fire company inspection.

**SFFMA (11-03.11)**

**11-I.05** Trainee shall identify the fire hazards commonly found in manufacturing, commercial, residential, and public assembly occupancies.

**NFPA 1001 5.5.1 / SFFMA (11-03.13)**

- |                   |                    |
|-------------------|--------------------|
| A. Common hazards | B. Special hazards |
| 1. Fuel supply    | C. Target hazards  |
| 2. Heat source    |                    |

**11-I.06** Trainee shall identify common deficiencies in electrical services and equipment.

**SFFMA (11-03.14)**

- 11-I.07 Trainee shall identify and define fire spread through air conditioning and utility ducts, and the functions of automatic and manual controls of these systems.  
**SFFMA (11-03.16)**
- 11-I.08 Trainee shall identify local code requirements covering the proper storage and use of flammable liquids and gases.  
**NFPA 1001 5.5.1 / SFFMA (11-03.17)**
- 11-I.09 Trainee shall identify storage codes and practices contributing to fire safety in buildings, including proper piling, aisles, clearances, access to fire equipment and exits.  
**SFFMA (11-03.18)**
- 11-I.10 Trainee shall identify proper outside storage and how it affects fire fighting, including aisles, roadways, access to hydrants, access to buildings, and exposure hazards.  
**NFPA 1001 5.5.1 / SFFMA (11-03.19)**
- 11-I.11 Trainee shall identify water and smoke damage potential to goods, to office and manufacturing machinery, and other valuable objects.  
**SFFMA (11-03.20)**
- 11-I.12 Trainee shall identify legal issues concerning fire prevention inspections.  
**NFPA 1001 5.5.1 / SFFMA (11-03.21)**
- A. Trainee shall identify and define the authorities and conditions giving fire service personnel the right to enter a property and perform fire prevention inspections.
- B. Trainee shall identify and define conditions or circumstances that would limit the right of fire service personnel to enter a property and perform fire prevention inspections.
- C. Trainee shall identify and define proper procedures for gaining code compliance.
- D. Trainee shall define the legal liability of fire service personnel when conducting fire prevention inspections

## **SECTION 12 WATER SUPPLIES**

*There are no objectives required for this certification level.*

## **SECTION 13 FIRE PROTECTION SYSTEMS**

- 13-I.05 Trainee shall identify the main drain valve on the system.  
**SFFMA (13-02.01)**
- 13-I.06 Trainee shall open and close a main drain valve on the system.  
**SFFMA (13-02.02)**
- 13-I.07 Trainee shall identify the main control valve on the system.  
**NFPA 1001 5.3.14.A / SFFMA (13-02.01)**
- 13-I.08 Trainee shall operate a main control valve on the system from open to closed and back to open.  
**NFPA 1001 5.3.14.B / SFFMA (13-02.02)**
- 13-I.09 Trainee shall define the value of automatic sprinklers in providing safety to the occupants in a structure.  
**NFPA 1001 5.3.14.A / SFFMA (13-02.05)**
- 13-I.10 Trainee, given twelve various sprinkler heads, shall identify each of them correctly as to:  
**SFFMA (13-03.02)**
- A. temperature rating
- B. pendant or upright
- C. special types
- 13-I.11 Trainee shall identify the alarm test valve on the system.  
**SFFMA (13-03.03)**
- 13-I.12 Trainee, given an automatic sprinkler system, shall operate the alarm test valve.  
**SFFMA (13-03.04)**
- 13-I.13 Trainee, given a velocity drain valve or ball drip valve on the fire department connection of an automatic sprinkler system, shall demonstrate that the valve is operational and the pipe is drained.  
**SFFMA (13-03.05)**
- 13-I.14 Trainee, given a check valve on the fire department connection to an automatic sprinkler system, shall identify the direction of flow of water through the valve.  
**SFFMA (13-03.06)**
- 13-I.15 Trainee shall read and record the indicated pressures on all gauges provided on both a standard wet and standard dry system, and identify each gauge.  
**SFFMA (13-03.07)**
- 13-I.16 Trainee shall define the reliability of automatic sprinkler systems, and give eight (8) reasons for unsatisfactory performance.  
**SFFMA (13-03.08)**

- 13-I.17 Trainee, by inspection of an automatic sprinkler system in a building, shall identify obstructions to sprinkler heads and the required clearance.  
**SFFMA (13-03.09)**

## **SECTION 14 TRANSPORTATION EMERGENCIES**

*There are no objectives required for this certification level.*

## **SECTION 15 FIRE BEHAVIOR (FIRE SCIENCE)**

*There are no objectives required for this certification level.*

## **SECTION 16 FIRE ALARMS AND COMMUNICATION**

- 16-I.09 Trainee shall identify supervisory alarm equipment provided in the fire station and the prescribed action to be taken upon receipt of designated signals.  
**SFFMA (16-02.03)**
- 16-I.10 Trainee shall identify fire location indicators provided to direct firefighters to specific locations in protected public or private properties  
**SFFMA (16-02.04)**
- 16-I.11 Trainee shall demonstrate the rewinding, resetting, or both, of any fire alarm boxes or devices on the public fire alarm system, **if found in the AHJ.**  
**SFFMA (16-03.01)**

## **SECTION 17 PUBLIC RELATIONS**

*There are no objectives required for this certification level.*

## **SECTION 18 RECORDS AND REPORTS**

*There are no objectives required for this certification level.*

## **SECTION 19 EMERGENCY VEHICLE OPERATIONS**

*There are no objectives required for this certification level.*

## **SECTION 20 EMERGENCY MANAGEMENT**

- 20-I.01 Trainee shall identify activities on a national level required by FEMA to meet its responsibilities to establish and maintain comprehensive and coordinated emergency management in the United States.  
**Completion of ICS-700 meets the requirements of this objective.**  
**NFPA 1001 5.1.1 / SFFMA (20-03.01)**
- 20-I.02 Trainee shall identify, by title, the official responsible for emergency management in the state.  
**Completion of ICS-800 meets the requirements of this objective.**  
**NFPA 1001 5.1.1 / SFFMA (20-03.02)**
- 20-I.03 Trainee shall identify, by title, the official responsible for emergency management in a county or parish.  
**Completion of ICS-800 meets the requirements of this objective.**  
**NFPA 1001 5.1.1 / SFFMA (20-03.03)**
- 20-I.04 Trainee shall identify, by title, the city official who is responsible for emergency management in a city.  
**Completion of ICS-800 meets the requirements of this objective.**  
**NFPA 1001 5.1.1 / SFFMA (20-03.04)**
- 20-I.05 Trainee shall identify department procedures for potential disasters in the area of their response.  
**Completion of ICS-800 meets the requirements of this objective.**  
**NFPA 1001 5.1.1 / SFFMA (20-03.05)**

## **SECTION 21 FIRE CAUSE AND ORIGIN**

*There are no objectives required for this certification level.*

## SECTION 22 LIVE FIRE TRAINING

**22-I.02** Trainee, operating as the nozzle person and as a member of a team, shall control and/or extinguish the following live fires using appropriate protective equipment, fire fighting tools, and extinguishing agents:

**NFPA 1001 5.3.8 / SFFMA (22-02.01)**

(Document with Live Fire Training #1 skillsheet found in appendix and retain on file)

(Document with Live Fire Training #2 skillsheet found in appendix and retain on file)

(Document with Live Fire Training #3 skillsheet found in appendix and retain on file)

(Document with Live Fire Training #5 skillsheet found in appendix and retain on file)

(Document with Live Fire Training #6 skillsheet found in appendix and retain on file)

- A. a one (1) room fire
- B. a two (2) room fire
- C. piles/stacks of Class A combustible materials (exterior)
- D. open pans of combustible materials (exterior)
- E. vehicle fires
- F. storage containers and
- G. flammable gas cylinders (exterior)

**22-I.03** Trainee, operating as a member of a team, shall perform vertical ventilation during live fire training.

**NFPA 1001 5.3.12 / SFFMA (22-02.02)**

**22-I.04** Trainee, operating as a member of a team, shall perform horizontal ventilation during live fire training.

**NFPA 1001 5.3.11 / SFFMA (22-02.03)**

**22-I.05** Trainee, operating as an individual or a member of a team, shall carry and raise ladders during live fire training.

**NFPA 1001 5.3.6 / SFFMA (22-02.04)**

**22-I.06** Trainee shall extinguish a Class B fire with a portable fire extinguisher.

**NFPA 1001 5.3.16 / SFFMA (22-02.05)**

## SECTION 23 FIREFIGHTER SAFETY/PERSONAL PROTECTIVE CLOTHING

*There are no objectives required for this certification level.*

## SECTION 24 PUMP OPERATIONS/HYDRAULICS

**24-I.04** Trainee shall identify the type, design, operation, nozzle pressure and flow in GPM of various types of nozzles.

**SFFMA (24-02.01)**

**24-I.05** Trainee shall list the different types of fire streams.

**SFFMA (24-02.02)**

**24-I.06** Trainee, given a 2½" straight stream nozzle, shall demonstrate the proper opening and closing techniques and line movement procedures.

**SFFMA (24-02.03)**

**24-I.07** Trainee shall calculate nozzle reaction for various nozzle pressures.

**SFFMA (24-02.04)**

**24-I.08** Trainee, given the proper information, shall list advantages and disadvantages of various nozzles:

**SFFMA (24-02.05)**

- A. straight stream
- B. fog
- C. master stream

**24-I.09** Trainee shall define water hammer and list ways of preventing water hammer.

**SFFMA (24-02.06)**

**24-I.10** Trainee shall calculate the water flow rate needed to control fire in a room that is 20'x20'x8'.

**SFFMA (24-02.07)**

**24-I.11** Trainee, given a diagram of various nozzles, shall list major parts and trace flow routes through each.

**SFFMA (24-02.08)**

**24-I.12** Trainee shall list factors that influence fire streams.

**SFFMA (24-02.09)**

**24-I.13** Trainee shall list the proper procedures for inspection and maintenance of fire fighting nozzles.

**SFFMA (24-02.10)**

**24-I.14** Trainee shall demonstrate the operations of the pumper pressure relief system and/or pressure control valve as follows:

**SFFMA (24-02.11)**

- A. Trainee, given a pump panel, shall identify a pressure relief system.
- B. Trainee shall list the reasons a pressure relief system is used.

- C. Trainee shall list the different types of pressure relief systems used in the fire service.
- D. Trainee shall list three (3) reasons of how excessive pressure develops in fire hose.

**24-I.15** Trainee shall identify the following terms relating to the principles of fire service hydraulics as follows:  
**NFPA 1001 5.3.10 / SFFMA (24-03.01)**

- A. Trainee shall list the forms water takes and advantages water exhibits as an extinguishing agent.
- B. Trainee shall list six (6) types of pressure, which affect the properties of water in fire service hydraulics.
- C. Trainee, given a pump diagram and flow chart, shall explain the theory of drafting and principle component uses in a drafting operation.
- D. Trainee shall calculate the available water supply from a fire hydrant.
- E. Trainee shall demonstrate assembly and connection of the equipment necessary for drafting from a static water supply source and demonstrate drafting operations.

## **SECTION 25 GROUND COVER FIREFIGHTING NFPA 1001 5.3.19?**

**25-I.03** Trainee shall, given a specific wildland fire situation, construct hand and wet fire lines using safe and effective both direct and indirect line construction techniques to control the fire within less than 10% increase in the perimeter.

**SFFMA (25-02.01)**

**(Document with Live Fire Training #4 skillsheet found in appendix and retain on file)**

**25-I.04** Trainee shall, given a specific wildland fire situation as reported, locate the fire relative to his present location and describe the factors involved to respond safely to that location within the response time standards of the department.

**SFFMA (25-02.02)**

**25-I.05** Trainee shall, given a specific wildland fire situation, analyze (size up) the situation and using proper procedures, shall organize this information into a clear, concise report of conditions necessary to develop an initial plan of action to control the fire within 2 hours.

**SFFMA (25-02.03)**

**25-I.06** Trainee shall, given a specific wildland fire situation with control lines established, insure complete extinguishment of the fire by employing recognized mop-up techniques.

**SFFMA (25-02.04)**

**(Document with Live Fire Training #4 skillsheet found in appendix and retain on file)**

**25-I.07** Trainee shall, given a residence within a wildland area, identify typical fire hazards and recommend corrective actions which are within his authority and ability to do.

**SFFMA (25-02.05)**

**(Document with Live Fire Training #4 skillsheet found in appendix and retain on file)**

**25-I.08** Trainee shall, given a specific wildland fire situation, list and describe recognized safety practices and corrective actions to be taken to ensure that the department does not have any injuries due to the wildfire suppression effort.

**SFFMA (25-02.06)**

***PLEASE NOTE: IT IS RECOMMENDED THAT THE TEXAS FOREST SERVICE COURSE "WILDLAND FIRE SUPPRESSION FOR VOLUNTEER DEPARTMENTS", OR ITS EQUIVALENT, IS USED AS REFERENCE MATERIALS IN MEETING THE OBJECTIVES OF THIS SECTION.***

## **SECTION 26 HAZARDOUS MATERIALS /WMD**

**NFPA 472: Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents, (2008 Ed.)**

**26-I.07** Trainee shall demonstrate knowledge of basic hazard and risk assessment techniques.

**SFFMA (26-02.01)**

**26-I.08** Trainee shall know how to select and use proper personal protective equipment provided to the first responder operational level.

**SFFMA (26-02.02)**

**26-I.09** Trainee shall demonstrate the knowledge of basic hazardous materials terms.

**SFFMA (26-02.03)**

**26-I.10** Trainee shall demonstrate basic control, containment and/or confinement operations within the capabilities of the resources and personal protective equipment **available to the local AHJ.**

**SFFMA (26-02.04)**

**26-I.11** Trainee shall demonstrate knowledge of resource requirements and planning principles as related to hazardous materials response at the awareness level and operations level.

**SFFMA (26-03.01)**

- 26-I.12 Trainee shall demonstrate knowledge of the principles of classification, identification, and verification of hazardous materials at the awareness level and operations level.  
**SFFMA (26-03.02)**
- 26-I.13 Trainee shall demonstrate how to implement basic decontamination procedures.  
**SFFMA (26-03.03)**
- 26-I.14 Trainee shall demonstrate knowledge of standard operating procedures and termination procedures applicable to hazardous materials incident response.  
**SFFMA (26-03.04)**

## **SECTION 27 SELF-CONTAINED BREATHING APPARATUS**

*There are no objectives required for this certification level.*

## **SECTION 28 ROPES**

- 28-I.07 Trainee, given the proper rope, shall demonstrate the bight, loop, round turn, and half hitch as used in tying knots and hitches.  
**SFFMA (28-02.01)**
- 28-I.08 Trainee, using an approved knot, shall hoist any selected forcible entry tool, ground ladder, or appliance to a height of at least 20':  
**NFPA 1001 5.1.2 / SFFMA (28-02.02)**  
(Document with Ropes #6 skillsheet found in appendix and retain on file)
  - A. a 1½" or 1¾" dry hose with nozzle attached
  - B. a 2½" or 3" dry hose with nozzle attached
  - C. a 1½" or 1¾" charged hose
  - D. an axe
  - E. a 6' or 8' pike pole
  - F. a single 14' or 16' (wall) ladder
  - G. a 10' collapsible ladder
  - H. a 14' combination ladder
  - I. working as a member of a team, a 24' extension ladder
  - J. a 15 lb. CO<sub>2</sub> fire extinguisher
  - K. a 20 lb. dry chemical fire extinguisher
  - L. an electric smoke ejector
  - M. a pair of bolt cutters
- 28-I.09 Trainee shall demonstrate the technique of inspection, cleaning, maintaining, storage, safety procedures, and reasons for placing a rope out of service.  
**NFPA 1001 5.1.1 / SFFMA (28-02.03)**  
(Document with Ropes #5 skillsheet found in appendix and retain on file)  
(Document with Ropes #6 skillsheet found in appendix and retain on file)
- 28-I.10 Trainee, when given a simulated fire fighting or rescue task, shall select the appropriate size, strength and length of rope as follows:
  - A. Trainee shall tie a double loop figure eight on a bight and place it on a victim (the life basket).**SFFMA (25-02.01)**
- 28-I.11 Trainee shall use a rope to tie ladders, hose, and other equipment so as to secure them to immovable objects as follows:  
**NFPA 1001 5.1.1 / SFFMA (28-03.02)**  
(Document with Ropes #1 skillsheet found in appendix and retain on file)
  - A. secure a ladder tip to a building,
  - B. secure a 1½" or larger charged line to a ladder
  - C. secure a hose roller
- 28-I.12 Trainee shall select and tie a rope between two objects at least 15' (4.6m) apart, which will support the weight of a firefighter on the rope.  
**SFFMA (25-02.01)**



## **SECTION 29 PORTABLE EXTINGUISHERS**

**29-I.04** Trainee shall demonstrate the use of portable extinguishers for each class of fire as follows:

**NFPA 1001 5.3.16.B / SFFMA (29-02.01)**

**(Document with Portable Fire Extinguishers #1 skillsheet found in appendix and retain on file)**

- A. extinguish a class A fire using a pump tank water extinguisher
- B. extinguish a class B fire using a dry chemical extinguisher
- C. extinguish a class B fire using a CO<sub>2</sub> extinguisher

**29-I.05** Trainee shall identify and explain the extinguishing effect needed for each class of fire as follows:

**NFPA 1001 5.3.16.B / SFFMA (29-03.01)**

- A. Class A fire:
  - 1. cooling
  - 2. smothering
- B. Class B fire:
  - 1. smothering
  - 2. blanketing
- C. Class C fire:
  - 1. smothering & non-conductive
- D. Class D fire:
  - 1. must be non-reactive with burning material

**29-I.06** Trainee shall identify and explain fire extinguisher characteristics and operations of:

**SFFMA (29-03.02)**

- A. Pump tank water extinguishers, stored-pressure water extinguishers, aqueous film forming foam extinguishers, Halon 1211 extinguishers, CO<sub>2</sub> extinguishers, dry chemical extinguishers (ordinary base agent), and dry chemical extinguishers (multi-purpose base) as to their:
  - 1. size
  - 2. applicable to what class of fires
  - 3. stream reach under normal conditions
  - 4. discharge time under normal conditions
  - 5. protection from freezing
  - 6. methods of operation

## **SECTION 30 BUILDING CONSTRUCTION**

*There are no objectives required for this certification level.*

## **SECTION 31 PUBLIC FIRE EDUCATION**

*There are no objectives required for this certification level.*