

Chapter 3 – FF I

Fire Department Communications

Lesson Goal

After completing this lesson, the student shall be able to discuss external and internal communications in the fire service. Students shall also display the correct communication skills during emergency and nonemergency calls.

Objectives

Upon successful completion of this lesson, the student shall be able to:

1. Explain the procedures for receiving emergency and nonemergency external communications. *[NFPA® 1001, 5.2.1, 5.2.2]*
2. Describe the information required to dispatch emergency services. *[NFPA® 1001, 5.2.1, 5.2.2, 5.2.3]*
3. Describe the systems used for internal communications. *[NFPA® 1001, 5.2.1, 5.2.2]*
4. Explain radio limitations that may impact internal communications. *[NFPA® 1001, 5.2.3]*
5. Describe radio procedures used for internal communications. *[NFPA® 1001, 5.2.1, 5.2.3]*
6. Handle emergency and nonemergency calls. *[NFPA® 1001, 5.2.1, 5.2.2 Skill Sheet 3-I-1]*
7. Use a portable radio for routine and emergency traffic. *[NFPA® 1001, 5.2.1, 5.2.3 Skill Sheet 3-I-2]*

Chapter 8 – FF I

Ropes, Webbing, and Knots

Lesson Goal

After completing this lesson, the student shall be able to appropriately select rope and webbing based on proposed use. The student shall also be able to select and tie the appropriate knot for the task presented.

Objectives

Upon successful completion of this lesson, the student shall be able to:

1. Compare and contrast the characteristics of life safety rope and utility rope. *[NFPA® 1001, 5.3.2]*
2. Summarize basic guidelines for rope maintenance. *[NFPA® 1001, 5.5.1]*
3. Explain reasons for placing rope out of service. *[NFPA® 1001, 5.3.20]*
4. Describe webbing and webbing construction. *[NFPA® 1001, 5.3.20]*
5. Describe parts of a rope and considerations in tying a knot. *[NFPA® 1001, 5.1.2, 5.3.20]*
6. Describe knot characteristics and knot elements. *[NFPA® 1001, 5.1.2, 5.3.20]*
7. Describe characteristics of knots commonly used in the fire service. *[NFPA® 1001, 5.1.2, 5.3.20]*
8. Select commonly used rope hardware for specific applications. *[NFPA® 1001, 5.1.2, 5.3.20]*
9. Summarize hoisting safety considerations. *[NFPA® 1001, 5.1.2, 5.3.20]*
10. Inspect, clean, and store rope. *[NFPA® 1001 5.5.1; Skill Sheet 8-I-1]*
11. Tie an overhand knot. *[NFPA® 1001 5.3.20; Skill Sheet 8-I-2]*
12. Tie a bowline knot. *[NFPA® 1001 5.3.20; Skill Sheet 8-I-3]*

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13. Tie a clove hitch. *[NFPA® 1001 5.3.20; Skill Sheet 8-I-4]*
14. Tie a clove hitch around an object. *[NFPA® 1001 5.3.20; Skill Sheet 8-I-5]*
15. Tie a handcuff (rescue) knot. *[NFPA® 1001 5.3.20; Skill Sheet 8-I-6]*
16. Tie a figure-eight knot. *[NFPA® 1001 5.3.20; Skill Sheet 8-I-7]*
17. Tie a figure-eight bend. *[NFPA® 1001 5.3.20; Skill Sheet 8-I-8]*
18. Tie a figure-eight on a bight. *[NFPA® 1001 5.3.20; Skill Sheet 8-I-9]*
19. Tie a figure-eight follow through. *[NFPA® 1001 5.3.20; Skill Sheet 8-I-10]*
20. Tie a Becket bend. *[NFPA® 1001 5.3.20; Skill Sheet 8-I-11]*
21. Tie a water knot. *[NFPA® 1001 5.3.20; Skill Sheet 8-I-12]*
22. Hoist an axe. *[NFPA® 1001 5.1.2, 5.3.20; Skill Sheet 8-I-13]*
23. Hoist a pike pole. *[NFPA® 1001 5.1.2, 5.3.20; Skill Sheet 8-I-14]*
24. Hoist a roof ladder. *[NFPA® 1001 5.1.2, 5.3.20; Skill Sheet 8-I-15]*
25. Hoist a dry hoseline. *[NFPA® 1001 5.1.2, 5.3.20; Skill Sheet 8-I-16]*
26. Hoist a charged hoseline. *[NFPA® 1001 5.1.2, 5.3.20; Skill Sheet 8-I-17]*
27. Hoist a power saw. *[NFPA® 1001 5.1.2, 5.3.20; Skill Sheet 8-I-18]*

Chapter 10 – FF I

Scene Lighting, Rescue Tools, Vehicle Extrication, and Technical Rescue

Lesson Goal

After completing this lesson, the student shall be able to identify emergency scene lighting equipment.

Objectives

Upon successful completion of this lesson, the student shall be able to:

1. Identify types of emergency scene lighting equipment. *[NFPA® 1001, 5.3.17]*

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Water Supply

Lesson Goal

After completing this lesson, the student shall be able to discuss the various components of water supply systems, including fire hydrants. The student will also be able to describe alternative water supply sources and methods used for rural water supply operations.

Objectives

Upon successful completion of this lesson, the student shall be able to:

1. Explain the ways water supply system components are used by firefighters. *[NFPA® 1001, 5.3.15]*
2. Describe types of fire hydrants and hydrant markings. *[NFPA® 1001, 5.3.15]*
3. Explain fire hydrant operation and inspection considerations. *[NFPA® 1001, 5.3.15]*
4. Explain alternative water supply sources and methods of access. *[NFPA® 1001, 5.3.15]*
5. Describe methods used for rural water supply operations. *[NFPA® 1001, 5.3.15]*
6. Operate a hydrant. *[NFPA® 1001, 5.3.15; Skill Sheet 14-I-1]*
7. Make soft-sleeve and hard-suction hydrant connections. *[NFPA® 1001, 5.3.15; Skill Sheet 14-I-2]*
8. Connect and place a hard-suction hose for drafting from a static water source. *[NFPA® 1001, 5.3.15; Skill Sheet 14-I-3]*
9. Deploy a portable water tank. *[NFPA® 1001, 5.3.15; Skill Sheet 14-I-4]*

Chapter 17 – FF I

Fire Control

Lesson Goal

After completing this lesson, the student shall be able to discuss fire control of fires in structures, in Class C fires, in Class D fires, vehicle fires, and ground cover fires and be able to perform various skills related to fire attack.

Objectives

Upon successful completion of this lesson, the student shall be able to:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
7. Describe steps taken when supporting fire protection systems at protected structures. *[NFPA® 1001, 5.3.8, 5.3.10, 5.3.14]*
8. Explain considerations taken when deploying, supplying, and staffing master stream devices. *[NFPA® 1001, 5.3.8]*
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.
- 17.
- 18.

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- 19.
- 20.
- 21.
- 22.
- 23.
24. Connect supply fire hose to a fire department connection. *[NFPA® 1001, 5.3.8, 5.3.10, 5.3.14; Skill Sheet 17-I-4]*
25. Operate a sprinkler system control valve. *[NFPA® 1001, 5.3.8, 5.3.10, 5.3.14, 5.3.15; Skill Sheet 17-I-5]*
26. Stop the flow of water of an activated sprinkler. *[NFPA® 1001, 5.3.8, 5.3.10, 5.3.14; Skill Sheet 17-I-6]*
27. Deploy and operate a portable master stream device. *[NFPA® 1001, 5.3.8; Skill Sheet 17-I-7]*
- 28.
- 29.
- 30.
- 31.
- 32.

Chapter 18 – FF I

Loss Control

Lesson Goal

After completing this lesson, the student shall be able to apply loss control knowledge and practices following the policies and procedures set forth by the authority having jurisdiction (AHJ).

Objectives

Upon successful completion of this lesson, the student shall be able to:

1. Explain the philosophy of loss control. *[NFPA® 1001, 5.3.14]*
2. Describe the ways preincident planning impacts loss control. *[NFPA® 1001, 5.3.14]*
3. Determine appropriate salvage procedures. *[NFPA® 1001, 5.3.14]*
4. Compare and contrast different types of salvage covers. *[NFPA® 1001, 5.3.14]*
5. Explain ways to fold, roll, spread, and improvise with salvage covers. *[NFPA® 1001, 5.3.14]*
6. Describe ways to cover openings during salvage operations. *[NFPA® 1001, 5.3.14]*
7. Explain methods used to maintain fire safety during overhaul. *[NFPA® 1001, 5.3.13]*
8. Describe factors that influence locating hidden fires. *[NFPA® 1001, 5.3.10, 5.3.13]*
9. Identify different overhaul procedures. *[NFPA® 1001, 5.3.13]*
10. Indicate the ways a thermal imager can be used during overhaul. *[NFPA® 1001, 5.3.13]*
11. Clean, inspect, and repair a salvage cover. *[NFPA® 1001, 5.3.14; Skill Sheet 18-I-1]*
12. Roll a salvage cover for a one-firefighter spread. *[NFPA® 1001, 5.3.14; Skill Sheet 18-I-2]*

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13. Spread a rolled salvage cover — One-firefighter method. *[NFPA® 1001, 5.3.14; Skill Sheet 18-I-3]*
14. Fold a salvage cover for a one-firefighter spread. *[NFPA® 1001, 5.3.14; Skill Sheet 18-I-4]*
15. Spread a folded salvage cover — One-firefighter method. *[NFPA® 1001, 5.3.14; Skill Sheet 18-I-5]*
16. Fold a salvage cover for a two-firefighter spread. *[NFPA® 1001, 5.3.14; Skill Sheet 18-I-6]*
17. Spread a folded salvage cover — Two-firefighter balloon throw. *[NFPA® 1001, 5.3.14; Skill Sheet 18-I-7]*
18. Construct a water chute without pike poles. *[NFPA® 1001, 5.3.14; Skill Sheet 18-I-8]*
19. Construct a water chute with pike poles. *[NFPA® 1001, 5.3.14; Skill Sheet 18-I-9]*
20. Construct a catchall. *[NFPA® 1001, 5.3.14; Skill Sheet 18-I-10]*
21. Make a chute and attach it to a catchall. *[NFPA® 1001, 5.3.14; Skill Sheet 18-I-11]*
22. Locate and extinguish hidden fires. *[NFPA® 1001, 5.3.10, 5.3.13; Skill Sheet 18-I-12]*

Chapter 19 – FF I

Fire Origin and Cause Determination

Lesson Goal

After completing this lesson, the student shall be able to describe the investigative process of a fire's cause and origin.

Objectives

Upon successful completion of this lesson, the student shall be able to:

1. Explain ways to recognize obvious signs of the area of origin. *[NFPA® 1001, 5.3.8, 5.3.14]*
2. Describe the relationship between fire cause classifications and cause determination. *[NFPA® 1001, 5.3.8, 5.3.13]*
3. Recognize signs of arson. *[NFPA® 1001, 5.3.13]*
4. Describe the importance of preserving evidence. *[NFPA® 1001, 5.3.8, 5.3.14]*
5. Explain techniques for preserving evidence. *[NFPA® 1001, 5.3.8, 5.3.14]*

Chapter 21 – FF I

Fire and Life Safety Initiatives

Lesson Goal

After completing this lesson, the student shall be able to describe the role of a Firefighter I in the development and implementation of a fire and life safety program. Students will also be able to explain the process of selecting and delivering appropriate fire and life safety messages.

Objectives

Upon successful completion of this lesson, the student shall be able to:

1. Explain the steps taken during fire and life safety program development. *[NFPA® 1001, 5.1.1]*
2. Describe the components involved in fire and life safety program delivery. *[NFPA® 1001, 5.1.1]*
3. Explain the impact of safety hazards, messages, and target audiences on creating fire and life safety education programs. *[NFPA® 1001, 5.1.1]*
4. Indicate ways to identify and prevent firesetter development. *[NFPA® 1001, 5.1.1]*
5. Describe the role of a Firefighter I in enforcing fire and life safety codes. *[NFPA® 1001, 5.1.1]*

Chapter 21 – FF II

Fire and Life Safety Initiatives

Lesson Goal

After completing this lesson, the student shall be able to plan and conduct private dwelling and preincident planning surveys. Students should also be able to explain the components and considerations for preparing and delivering fire and life safety presentations.

Objectives

Upon successful completion of this lesson, the student shall be able to:

1. Describe the role of a Firefighter II in planning for and conducting private dwelling fire safety surveys. *[NFPA® 1001, 6.5.1]*
2. Explain the components that must be considered when developing fire and life safety presentations. *[NFPA® 1001, 6.5.2]*
3. Recognize considerations that must be addressed when giving presentations to young children and fire station tours. *[NFPA® 1001, 6.5.1, 6.5.2]*
4. Describe the role of a Firefighter II in planning for and conducting preincident planning surveys. *[NFPA® 1001, 6.5.1, 6.5.3]*
5. Conduct a fire safety survey in an occupied structure. *[NFPA® 1001, 6.5.1; Skill Sheet 21-II-1]*
6. Make a fire and life safety presentation. *[NFPA® 1001, 6.5.1, 6.5.2; Skill Sheet 21-II-2]*
7. Conduct a fire station tour. *[NFPA® 1001, 6.5.1, 6.5.2; Skill Sheet 21-II-3]*
8. Prepare a preincident planning survey. *[NFPA® 1001, 6.5.1, 6.5.3; Skill Sheet 21-II-4]*