

Chapter 3 – FF II

Fire Department Communications

Lesson Goal

After completing this lesson, the student shall be able to discuss on-scene communications and postincident reports.

Objectives

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

1. Describe the aspects that make up on-scene communications.
[NFPA® 6.2.2]
2. Explain the information gathered by postincident reports.
[NFPA® 6.2.1]
3. Create an incident report. *[NFPA® 6.2.1, Skill Sheet 3-II-1]*

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Building Construction

Lesson Goal

After completing this lesson, the student shall be able to identify hazards related to building construction, as well as factors that indicate possible structural collapse.

Objectives

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

1. Explain the hazards related to building construction. *[NFPA® 1001, 6.3.2]*
2. Recognize the factors that influence structural collapse potential. *[NFPA® 1001, 6.3.2]*

Chapter 10 – FF II

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

Lesson Goal

After completing this lesson, the student shall be able to maintain extrication and rescue tools and equipment. The student shall also be able to perform basic vehicle extrication skills as well as describe the role of a Firefighter II in supporting specialized technical rescue teams.

Objectives

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

1. Explain considerations for maintenance of electric generators and lighting equipment. *[NFPA® 1001, 6.4.2, 6.5.4]*
2. Describe the types of rescue tools and equipment. *[NFPA® 1001, 6.4.2, 6.5.4]*
3. Explain the uses and limitations of each type of rescue tool. *[NFPA® 1001, 6.4.1, 6.4.2, 6.5.4]*
4. Identify the role of a fire department during vehicle extrication. *[NFPA® 1001, 6.4.1]*
5. Describe safety considerations that must be identified and mitigated during vehicle extrication. *[NFPA® 1001, 6.4.1]*
6. Explain the use of cribbing material during vehicle extrication. *[NFPA® 1001, 6.4.1]*
7. Describe the methods used for gaining access to victims during vehicle extrication. *[NFPA® 1001, 6.4.1]*
8. Explain the role a Firefighter II will play in technical rescue operations. *[NFPA® 1001, 6.4.2]*
9. Describe the various types of technical rescue operations. *[NFPA® 1001, 6.4.2]*
10. Explain the unique hazards associated with each type of technical rescue operation. *[NFPA® 1001, 6.4.2]*

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11. Demonstrate the steps for inspecting, servicing, and maintaining a portable generator and lighting equipment. *[NFPA® 1001, 6.5.4; Skill Sheet 10-II-1]*
12. Prevent horizontal movement of a vehicle using wheel chocks. *[NFPA® 1001, 6.4.1; Skill Sheet 10-II-2]*
13. Stabilize a vehicle using cribbing. *[NFPA® 1001, 6.4.1; Skill Sheet 10-II-3]*
14. Stabilize a vehicle using lifting jacks. *[NFPA® 1001, 6.4.1; Skill Sheet 10-II-4]*
15. Stabilize a vehicle using a system of ropes and webbing. *[NFPA® 1001, 6.4.1; Skill Sheet 10-II-5]*
16. Stabilize a side-resting vehicle using a buttress tension system. *[NFPA® 1001, 6.4.1; Skill Sheet 10-II-6]*
17. Remove a windshield in an older model vehicle. *[NFPA® 1001, 6.4.1; Skill Sheet 10-II-7]*
18. Remove a tempered glass side window. *[NFPA® 1001, 6.4.1; Skill Sheet 10-II-8]*
19. Remove a roof from an upright vehicle. *[NFPA® 1001, 6.4.1; Skill Sheet 10-II-9]*
20. Remove a roof from a vehicle on its side. *[NFPA® 1001, 6.4.1; Skill Sheet 10-II-10]*
21. Displace the dashboard. *[NFPA® 1001, 6.4.1; Skill Sheet 10-II-11]*

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Fire Hose

Lesson Goal

After completing this lesson, the student shall be able to explain safety rules for service testing a fire hose.

Objectives

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

1. Describe the safety considerations taken when service testing a fire hose. *[NFPA® 1001, 6.5.5]*
2. Service test a fire hose. *[NFPA® 1001, 6.5.5; Skill Sheet 15-II-1]*

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Fire Streams

Lesson Goal

After completing this lesson, the student shall be able to explain how foam is generated and used as a fire fighting tool. The student shall also be able to place a foam line in service using an in-line eductor and to extinguish an ignitable liquid fire.

Objectives

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

1. Describe the methods by which fire fighting foam prevents or controls a hazard. *[NFPA® 1001, 6.3.1]*
2. Identify foam concentrates. *[NFPA® 1001, 6.3.1]*
3. Explain the factors that impact foam expansion and selection. *[NFPA® 1001, 6.3.1]*
4. Describe methods by which foam may be proportioned. *[NFPA® 1001, 6.3.1]*
5. Explain the advantages and disadvantages of various foam proportioners, delivery devices, and generating systems. *[NFPA® 1001, 6.3.1, 6.3.2]*
6. Identify causes of poor foam production. *[NFPA® 1001, 6.3.1, 6.3.2]*
7. Distinguish among various foam application techniques. *[NFPA® 1001, 6.3.1, 6.3.2]*
8. Identify foam hazards and ways to control them. *[NFPA® 1001, 6.3.1, 6.3.2]*
9. Place a foam line in service using an in-line eductor. *[NFPA® 1001, 6.3.1, 6.3.2, Skill Sheet 16-II-1]*
10. Extinguish an ignitable liquid fire. *[NFPA® 1001, 6.3.1, Skill Sheet 16-II-2]*

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Fire Control

Lesson Goal

After completing this lesson, the student shall be able to describe tasks related to coordinating fireground operations, establishing command, and controlling Class B fires.

Objectives

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

1. Describe considerations taken when coordinating fireground operations. *[NFPA® 1001, 6.1.1, 6.1.2, 6.3.2]*
2. Explain fireground roles and responsibilities a firefighter II may need to coordinate. *[NFPA® 1001, 6.1.1, 6.1.2, 6.3.2]*
3. Discuss the process of establishing and transferring Command. *[NFPA® 1001, 6.1.1, 6.1.2, 6.3.2]*
4. Describe hazards that may be present at fires in underground spaces. *[NFPA® 1001, 6.3.2]*
5. List safety precautions that should be taken at flammable/combustible liquid fire incidents. *[NFPA® 1001, 6.3.1, 6.3.3]*
6. Recognize methods used when coordinating operations at a property protected by a fire suppression system. *[NFPA® 1001, 6.3.2]*
7. Explain ways to use water to control Class B fires. *[NFPA® 1001, 6.3.1]*
8. Compare methods used to suppress bulk transport vehicle fires and flammable gas incidents. *[NFPA® 1001, 6.3.3]*
9. Establish Incident Command and coordinate interior attack of a structure fire. *[NFPA® 1001, 6.1.1, 6.1.2, 6.3.2; Skill Sheet 17-II-1]*
10. Control a pressurized flammable gas container fire. *[NFPA® 1001, 6.3.3; Skill Sheet 17-II-2]*

Chapter 19 – FF II

Fire Origin and Cause Determination

Lesson Goal

After completing this lesson, the student shall be able to describe evidence location and collection, as well as explain the various roles involved in a fire investigation.

Objectives

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

1. Describe types of evidence used to indicate the area of origin or fire cause. *[NFPA® 1001, 6.3.4]*
2. Recognize fire cause evidence. *[NFPA® 1001, 6.3.4]*
3. Explain the roles and responsibilities of responders and investigators involved in fire investigations. *[NFPA® 1001, 6.3.4]*
4. Tell what legal issues impact location and collection of evidence during a fire investigation. *[NFPA® 1001 6.3.4]*
5. Protect evidence of fire cause and origin. *[NFPA® 1001, 6.3.4, Skill Sheet 19-II-1]*

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Fire Protection Systems

Lesson Goal

After completing this lesson, the student shall be able to explain the fundamentals of fire protection systems.

Objectives

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

1. Describe fire alarm systems. *[NFPA® 1001, 6.5.3]*
2. Identify alarm initiating devices. *[NFPA® 1001, 6.5.3]*
3. Explain the ways automatic sprinkler systems work. *[NFPA® 1001, 6.5.3]*
4. Describe standpipe and hose systems. *[NFPA® 1001, 6.5.3]*
5. Explain the ways smoke management systems work. *[NFPA® 1001, 6.5.3]*

Chapter 23

Hazards, Behavior, and Identification of Haz Mat/WMD

Lesson Goal

After completing this lesson, the student shall be able to identify the presence of various hazardous materials and weapons of mass destruction (WMD) and discuss their hazards and behavior.

Objectives

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

1. Recognize introductory information regarding hazardous materials. *[NFPA® 472, 4.2.1]*
2. Explain the six types of hazardous materials hazards. *[NFPA® 472, 4.4.1, 5.2.2, 5.2.3]*
3. Describe routes of entry for hazardous materials. *[NFPA® 472, 4.4.1]*
4. Describe the physical properties of hazardous materials. *[NFPA® 472, 5.2.3]*
5. Explain the six stages of the General Emergency Behavior Model (GEBMO) used to describe typical hazardous materials events. *[NFPA® 472, 5.2.3]*
6. Identify the seven categories of clues to the presence of hazardous materials/weapons of mass destruction. *[NFPA® 472, 4.2.1, 4.2.2, 5.2.1, 5.2.1.1, 5.2.1.2, 5.2.1.3, 5.2.1.1.1, 5.2.1.1.2, 5.2.1.1.3, 5.2.1.1.4, 5.2.1.1.5, 5.2.1.1.6, 5.2.1.3.3, 5.2.2, 5.2.1.2.1, 5.2.1.2.2, 5.2.1.3.1, 5.2.1.3.2]*
7. Describe the written resources used to identify hazardous materials. *[NFPA® 472, 4.2.2, 5.2.2]*
8. Explain the ways to safely use the five senses, along with monitoring and detection equipment, to detect the presence of hazardous materials. *[NFPA® 472, 4.2.1, 5.2.4]*

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9. Identify common indicators of terrorist attacks. *[NFPA® 472, 4.2.1, 5.2.1.6, 5.2.3]*
10. Describe the common indicators and types of illicit laboratories. *[NFPA® 472, 4.2.1]*
11. Explain ways to protect against secondary attacks and booby traps. *[NFPA® 472, 4.2.1, 5.3.1]*