

Chapter 24

Mitigating Haz Mat/WMD Incidents

Lesson Goal

After completing this lesson, the student shall be able to describe various mitigation efforts to be performed at haz mat/weapons of mass destruction incidents. In addition, students will perform various skills relating to defensive control functions.

Objectives

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

1. Summarize first responder roles at haz mat/WMD incidents. [NFPA® 472, 4.4.1; 5.4.3]
2. Summarize incident priorities for haz mat/WMD incidents.
3. Explain the management structure used for haz mat/WMD incidents. [NFPA® 472, 4.2.1, 4.4.1, 5.2.2, 5.4.3]
4. Explain the considerations that must be taken into account during the analysis stage of haz mat/WMD incidents. [NFPA® 472, 5.2.1; 5.2.1.4; 5.2.4; 5.3.1, 5.4.3]
5. Describe the steps used for planning the appropriate response at haz mat/WMD incidents. [NFPA® 472, 5.3.1; 5.3.2]
6. Describe the process for evaluating and communicating the progress at haz mat/WMD events. [NFPA® 472, 5.5.1; 5.5.2]
7. Explain how the *Emergency Response Guidebook (ERG)* is used at haz mat/WMD incidents. [NFPA® 472, 4.4.1; 4.2.3; 5.2.1.5]
8. Summarize the role of emergency response centers during haz mat/WMD incidents. [NFPA® 472, 5.2.2]
9. Explain the considerations that must be taken when choosing personal protective equipment at haz mat/WMD incidents. [NFPA® 472, 5.3.3; 6.2.3.1]
10. Distinguish among the four levels of EPA defined protection. [NFPA® 472, 6.2.3.1]

ASP115 – Fire Fighting Phase V

11. Describe Mission-Oriented Protective Posture (MOPP) ensembles. *[NFPA® 472, 6.2.3.1]*
12. Describe the selection factors that must be considered when selecting personal protective equipment at haz mat/WMD incidents. *[NFPA® 472, 6.2.3.1; 6.6.3.2]*
13. Explain safety and emergency procedures used for personnel wearing protective clothing. *[NFPA® 472, 6.2.4.1]*
14. Explain proper procedures for PPE inspection, storage, testing, and maintenance. *[NFPA® 472, 5.4.4; 6.2.4.1; 6.2.5.1]*
15. Describe the techniques used for isolation and scene control. *[NFPA® 472, 4.4.1]*
16. Identify basic notification considerations at haz mat/WMD incidents. *[NFPA® 472, 4.4.2; 5.2.2; 5.4.3]*
17. Describe methods that help ensure the protection of responders during haz mat/WMD incidents. *[NFPA® 472, 6.2.4.1; 5.4.4; 5.2.4; 5.5.1; 5.5.2; 5.4.3]*
18. Describe methods that help ensure the protection of the public during haz mat/WMD incidents. *[NFPA® 472, 5.4.1; 4.4.1]*
19. Describe the considerations and limitations of emergency and technical decontamination. *[NFPA® 472, 5.3.4; 5.2.3; 5.4.1; 5.3.2; 6.2.3.1; 6.2.4.1]*
20. Tell what rescue actions can be taken at haz mat/WMD incidents by personnel without specialized training. *[NFPA® 472, 5.3.1]*
21. Explain the strategic goal of spill control and confinement. *[NFPA® 472, 6.6.3.1]*
22. Describe methods used to complete the strategic goal of leak control and containment. *[NFPA® 472, 6.6.3.1; 6.6.4.1]*
23. Summarize the actions necessary when an incident is suspected to involve terrorist activity. *[NFPA® 472, 4.4.1]*
24. Explain how to preserve crime scene evidence. *[NFPA® 472, 5.4.2]*
25. Explain the goals for the recovery and termination phases of haz mat/WMD incidents.

ASP115 – Fire Fighting Phase V

26. Obtain information about a hazardous material using the *Emergency Response Guidebook (ERG)*. [NFPA® 472, 4.4.1; 4.2.3, *Skill Sheet 24-I-1*]
27. Perform emergency decontamination. [NFPA® 472, 5.3.4, *Skill Sheet 24-I-2*]
28. Perform absorption. [NFPA® 472, 6.6.3.1; *Skill Sheet 24-I-3*]
29. Perform adsorption. [NFPA® 472, 6.6.3.1; *Skill Sheet 24-I-4*]
30. Perform diking operations. [NFPA® 472, 6.6.3.1; *Skill Sheet 24-I-5*]
31. Perform damming operations. [NFPA® 472, 6.6.3.1; *Skill Sheet 24-I-6*]
32. Perform diversion operations. [NFPA® 472, 6.6.3.1; *Skill Sheet 24-I-7*]
33. Perform retention operations. [NFPA® 472, 6.6.3.1; *Skill Sheet 24-I-8*]
34. Perform dilution operations. [NFPA® 472, 6.6.3.1; *Skill Sheet 24-I-9*]
35. Perform vapor dispersion. [NFPA® 472, 6.6.3.1; *Skill Sheet 24-I-10*]
36. Perform a remote valve shutoff. [NFPA® 472, 6.6.3.1; 6.6.4.1; *Skill Sheet 24-I-11*]