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.  
   \cite{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.  
   \cite{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. \cite{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. \cite{NFPA 472, 5.3.1; 5.3.2}
6. Describe the process for evaluating and communicating the progress at haz mat/WMD events. \cite{NFPA 472, 5.5.1; 5.5.2}
7. Explain how the Emergency Response Guidebook (ERG) is used at haz mat/WMD incidents. \cite{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. \cite{NFPA 472, 5.2.2}
9. Explain the considerations that must be taken when choosing personal protective equipment at haz mat/WMD incidents. \cite{NFPA 472, 5.3.3; 6.2.3.1}
10. Distinguish among the four levels of EPA defined protection. \cite{NFPA 472, 6.2.3.1}
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.
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]