



Pennsylvania State Fire Academy

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Minimum Standard for Accreditation (MSA)

Date: July 1, 2010

Last Revision: July 1, 2010

Course Title: Delmar Hazardous Materials Awareness Level (DHMA)

SFA Course Code: DHMA

Course Length: 7 hours

Lecture/Lab Breakdown: 7.0/0

Prerequisites: N/A

Referenced Text(s): **Hazardous Materials Handbook: Awareness & Operations Levels, Pennsylvania Custom Edition.** Delmar Instructor Resources CD. OSHA 29 CFR 1910.120; DOT 49 CFR 171-173; NFPA 471; NFPA 472; DOT Emergency Response Guidebook most recent edition,

Course Goal: The goal of the Delmar Hazardous Materials Awareness Level (DHMA) is to prepare responders who, in the course of their normal duties, could encounter an emergency involving hazardous materials/weapons of mass destruction (WMD) and who are expected to recognize the presence of the hazardous materials/WMD, protect themselves, call for trained personnel to assist and secure the area.

Course Description: The primary target audiences for this course are the First Responders charged with response actions associated with hazardous materials releases. Student will learn and adapt the knowledge and skill requirements for effective scene and response management. The goal of this program is to provide the First Responder with the training needed to comply with NFPA 472 Chapter 4 Competencies for the First Responder at the Awareness Level, and 29 CFR 1910.120 OSHA's Hazardous Waste Operations and Emergency Response, (HAZWOPER), First Responder Awareness Level. This program is designed to give the first responder the necessary skills to handle hazardous materials emergencies.

Description of Methodology: Lecture, discussion, demonstration, and supervised practice.

Student Equipment & Supplies: Pen/pencil, textbook & notebook.

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Equipment/Audiovisual/Facility/Supply Requirements:

1. Classroom with usual amenities; computer and computer projection equipment with screen.
2. One copy of Instructor Guide and PowerPoint Presentation CD
3. One copy of textbook for each student (manual will remain in student's possession at course conclusion)
4. Examples of DOT Placards and Labels
5. Examples of NFPA 704 Placards
6. Examples of Military Marking System Placards
7. Emergency Response Guidebook, most recent edition, one (1) per student.
8. Material Safety Data Sheets 1 each student (when using FFHB, MSDS should be copied from instructor CD)
9. Worksheets for students for practical skills (to be instructor developed)
10. Written examination, examination answer sheets and #2 pencils.

Special Notes & Conditions: Maximum enrollment is 30 students. All course material is protected material and the property of the Pennsylvania State Fire Academy and Delmar Cengage Learning; substantial portions of the student manual may NOT be duplicated. Minimum age is 14 years for the Hazardous Materials Awareness Course.

Course Outline

<u>Elapsed Time</u>		<u>Topic</u>
0.25	.....	Introduction
1.0	.....	Lesson 1 (Chapter 1)
2.0	.....	Lesson 2 (Chapter 2 Slides 2.1 to 2.48)
1.25	.....	Lesson 3 (Chapter 3)
0.75	.....	Skill: ERG & MSDS Exercises
1.0	.....	Lesson 7 (Chapter 7)
0.50	Written Examination
0.25	Summary/Course Evaluation
<hr/> 7.0 Hours	Total Time	

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Competency Evaluation Mechanism: Student performance on practical skills evolutions and written examination grade (minimum passing grade of 70% required for successful completion of the course).

Learning Outcomes (Behavioral Objectives): Upon completion of this course, the student shall:

1. The student will identify hazardous materials by occupancy and location, placards and labels
2. The student will utilize the most recent edition of the ERG in researching hazardous materials
3. The student will utilize facility documents in researching hazardous materials
4. The student will identify common facility markings and the NFPA 704 diamond
5. The student will identify the common health hazards and their effects associated with hazardous materials
6. The student will identify the routes of entry of hazardous materials in the human body and their health effects
7. The student will describe the differences between exposure and contamination
8. The student will identify and describe vocabulary relating to exposure
9. The student will describe the four levels of protection
10. The student will identify the various sizes and types of pressurized vessels
11. The student will identify the various sizes and types of non-pressurized vessels
12. The student will describe the dispersion pattern of spilled hazardous material
13. The student will describe situations when no action would be taken at a hazardous materials incident
14. The student will identify common targets of terrorists
15. The student will describe the effects of a terrorist event
16. The student will describe the effects of various agents used in terrorist events
17. The student will recognize the differences between a criminal and terrorist event
18. The student will identify the five components of an incident command system
19. The student will describe the levels of response for hazardous materials incidents

Questions/Comments: Curriculum Specialist 717-248-1115