

Minimum Standard For Accreditation

Hazardous Materials Training: First Responder Awareness

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Minimum Standard for Accreditation (MSA)

Date: July 1, 2010

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Course Title: Delmar Hazardous Materials Awareness Refresher (DHMAR)

SFA Course Code: DHMAR

Course Length: 3 hours

Lecture/Lab Breakdown: 3.0/0

Prerequisites: DHMA

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 2008 Edition;

Course Goal: Students completing this course will be able to safely and effectively manage a hazardous materials release using first due resources until the arrival of additional specialized units. This program is designed to refresh student knowledge in hazardous materials responses in accordance with requirements of annual refresher training as identified by regulating agencies.

Course Description: The primary target audiences for this course are the First Responders who have successfully completed a Hazardous Materials Awareness course. Student will review the knowledge and skill requirements for effective scene and response management. This course will 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 annual refresher training.

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

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

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, 2008 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.

The instructor will be granted a great deal of leeway in leading the student through this learning experience. The instructor should select specific discussion points from the Instructors Resource CD and classroom exercises necessary to meet the objectives defined in this document based on the skill level of the students in the course.

It is anticipated that students completing prior versions of the Awareness level training may not have the requisite knowledge to meet the stated objectives of this refresher program. It is highly recommended that students who have not successfully completed the Delmar Hazardous Materials Awareness (DHMA) do so prior to attempting to complete this refresher program. This refresher program is designed to meet the learning outcomes of the new Delmar Hazardous Materials (DHMA) course.

Course Outline

<u>Elapsed Time</u>	<u>Topic</u>
0.25	Introduction
0.25	Lesson 1 (Chapter 1)
0.5	Lesson 2 (Chapter 2 Slides 2.1 to 2.48)
0.5	Lesson 3 (Chapter 3)
0.5	Skill: ERG & MSDS Exercises
0.5	Lesson 7 (Chapter 7)
0.25	Written Examination
0.25	Summary/Course Evaluation
<hr/> 3.0 Hours	Total Time

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): The following learning outcomes are associated with Hazardous Materials Awareness level training. These objectives will be met as part of the refresher training:

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: Contact Curriculum Specialist 717-248-1115