

	Pennsylvania State Fire Academy	
	717.248.1115 In PA: 1.800.459.4096	1150 Riverside Drive Lewistown, PA 17044-1979
	FAX 717.248.3580	www.osfc.state.pa.us
Minimum Standard for Accreditation (MSA)		

Date: Jan. 1, 2014
Last Revision: -----, ----

Course Title: Hazardous Materials Awareness

SFA Course Code: HMA

Course Length: 4 hours

Lecture/Lab Breakdown: 4/0

Prerequisites: None

Referenced Text(s): *Hazardous Materials Handbook: Awareness and Operations Levels, Delmar Pennsylvania Custom Edition*, or *Hazardous Materials Awareness and Operations, Jones and Bartlett, First Edition*. Instructor Resources, OSHA 29 CFR 1910.120; DOT 49 CFR 171-173; NFPA 471; NFPA 472; and DOT Emergency Response Guidebook, Current Edition.

Course Goal: The goal of the Hazardous Materials Awareness (HMA) class 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 a hazardous material/WMD call for trained personnel to assist, secure and protect the area. This course will meet the requirement for annual review under 29 CFR 1919.120 for emergency response.

Course Description: The primary target audience is the first responders who will witness or discover a hazardous materials release. This program is designed to give the first responder the necessary skills to handle hazardous material/WMD emergencies at the awareness level.

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

Student Equipment & Supplies: Note taking materials and textbook (if provided)

Equipment/Audiovisual/Facility/Supply Requirements:

1. Classroom amenities; adequate seating, computer, projection equipment with screen;
2. One copy of Instructor Guide and PowerPoint Presentation CD
3. One copy of Student Manual for each student (recommended)
4. Examples of DOT Placards and Labels, NFPA 704 Placards, Military Marking System Placards, Materials Safety Data Sheets (MSDS).

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5. Emergency Response Guidebook, most recent editions, one (1) per student
6. Global Harmonization System Handout
7. Written examination, examination answer sheets and #2 pencils

Special Notes & Conditions: None

Course Outline

<u>Time</u>	<u>Topic</u>	<u>Notes</u>
0.25	Introduction	
0.25	Introduction (Overview) to Hazardous Materials	
0.50	Hazardous Materials Types (TRACEMP)	
0.25	Estimating Potential Harm (Routes of Entry)	
1.25	Recognize and Identifying Hazardous Materials	
1.00	Terrorist Attacks and Illicit Laboratories	
0.50	Written Examination/Summary/Course Evaluation	

Total Time

4.0 hours

Competency Evaluation Mechanism: Student must attend 100% of the class, demonstrate performance on using ERG and a written examination grade (minimum passing grade of 70% required for successful completion of the course).

Learning Outcomes (Behavioral Objectives):

1. The student will understand the roles of first responders to hazardous materials releases
2. The student will understand clues to recognize and identifying hazardous materials (occupancy, location, placards, labels, containers, markings and colors, MSDS, and the Global Harmonization System (GHS) as part of OSHA Hazard Communications.
3. The student will demonstrate the use of an North American Emergency Response Guidebook (ERG)
4. The student will identify potential health hazards (routes of entry) and potential outcomes related to a hazardous materials release; including recommended personal protective equipment and the difference between exposure and contamination.
5. The student will understand making appropriate notifications to call for help.
6. The student will be introduced to potential WMD targets, effects, and agents
7. The student will recognize the difference between a criminal and terrorist event.
8. The student will recognize indicators of potential secondary devices.

Questions/Comments: Please contact the Assistant State Fire Academy Administrator