

University of Illinois Fire Service Institute

Course Syllabus

Course Title: Hazardous Materials Awareness - NFPA

Course Duration: 7 hours

Program: Hazardous Materials Program

Course Prerequisites: None

Course Description:

This course will provide first responders with the knowledge and skills to: Understand what hazardous substances are and the risk associated with them in an incident; recognize the presence of hazardous substances in an emergency; Understand the role of the emergency responder at the Awareness level, including site security and control; have understanding of the U.S. Department of Transportation Emergency Response Guidebook; realize the need for additional resources, call for appropriate assistance, to make appropriate notifications to the community. This course also includes counter-terrorism curriculum.

This course meets NFPA 470 Standard, 2022 Edition and OSHA CFR 29.1910.120 (q). Additionally, it meets the requirements of the Illinois Emergency Management Agency and the National Fire Academy.

Course Requirements:

Pre-Course Work – None

Course Work – Attend and participate

Post-Course Work – Complete online Course Evaluation Questionnaire

Course Policies:

Attendance Policy: IFSI requires students to attend (100%) or make up all course content that leads to certification. Students are expected to attend on time and to remain in class for the duration of the course. Students **MUST COMPLETE** all portions of a certification course, both classroom and practical, to be eligible to receive their certification.

If a student misses any portion of class with an accumulated absence of 20% or less of scheduled class time, it will be the student's responsibility to arrange the make-up of the missed course content with the instructor(s) or program manager. The student must make up the specific course content that s/he missed, not just the hours. Make-ups are limited to 20% of scheduled class time. Make-ups must be documented on the class roster. If a student's absence is greater than 20% refer to "True Emergencies" section of the IFSI Examination Policy.

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Safety Policy: Students shall understand and follow all instructions pertaining to operational safety, as stated by instructors, or as written in course materials. Instructors and students shall be always mindful of safety. Conduct judged to be unsafe shall be grounds for dismissal from the course.

Academic Integrity Policy: IFSI has the responsibility for maintaining academic integrity to protect the quality of the education provided through its courses, and to protect those who depend upon our integrity. It is the responsibility of the student to refrain from infractions of academic integrity, from conduct that may lead to suspicion of such infractions, and from conduct that aids others in such infractions. Any violation of the code of conduct is grounds for immediate dismissal from the course.

American Disabilities Act: As guaranteed in the Vocational Rehabilitation Act and in the American Disabilities Act, if any student needs special accommodations, they are to notify their instructor and provide documentation as soon as possible so arrangements can be made to provide for the student's needs. If arrangements cannot be made at the class site, the student will test at an alternative time and place where the special accommodations can be made.

Course Content:

Module: 1

Title: Introduction

Terminal Learning Objective:

At the conclusion of this module, the student will *explain* why every first responder needs to have a basic understanding of hazardous materials.

Module: 2

Title: Rights and Responsibilities

Terminal Learning Objective:

At the conclusion of this module, the student will *explain* the influences that laws, regulations, and standards have on the management of hazardous materials/WMD incidents.

Module: 3

Title: Characteristics of Hazardous Materials

Terminal Learning Objective:

At the conclusion of this module, the student will *identify* the characteristics of hazardous materials.

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Module: 4

Title: Hazardous Materials Identification

Terminal Learning Objective:

At the conclusion of this module, the student will *identify* the presence of hazardous materials based on clues given by the incident.

Module: 5

Title: Emergency Response to Terrorism

Terminal Learning Objective:

At the conclusion of this module, the student will *identify* possible indicators of a terrorist attack.

Module: 6

Title: Basic Scene Decisions

Terminal Learning Objective:

At the conclusion of this module, the student will *demonstrate* how to make effective, basic scene decisions at a hazardous materials/WMD incident.

Reference List:

International Fire Service Training Association, ed. *Hazardous Materials for First Responders 3rd Edition*. Stillwater: Fire Protection Publications, 2004

NFPA 470: Hazardous Materials/Weapons of Mass Destruction (WMD) Standard for Responders 2022 Ed. Quincy, MA: National Fire Protection Association, 2022

Noll, Gregory and Michael Hildebrand. *Hazardous Materials: Managing the Incident 4th Ed*. Jones & Bartlett Learning, 2014

Schnepp, Rob. *Hazardous Materials Awareness and Operations 3rd Edition*, Jones & Bartlett Learning, 2019

U.S. Department of Labor, *Code of Federal Regulations: Labor 29 CFR 1910.120*. Washington, D.C., Office of the Federal Register, National Archives and Records Administration, 1996

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Course Schedule

DAY ONE

| <u>Event</u> | <u>Duration</u> |
|---|-------------------|
| Module 1 – Introduction | 30 Minutes |
| Module 2 – Rights and Responsibilities | 1 Hour |
| Module 3 – Characteristics of Hazardous Materials | 1 Hour |
| Module 4 – Hazardous Materials Identification | 1 Hour 30 Minutes |
| Lunch | |
| Module 4 – Hazardous Materials Identification | 1 Hour |
| Module 5 – Emergency Response to Terrorism | 1 Hour |
| Module 6 – Basic Scene Decisions | 30 Minutes |
| Final Exercise | 30 Minutes |