

FIRE 123 : HAZMAT AWARENESS & OPERATIONS

Transcript title

HazMat Awareness Operations

Credits

3

Grading mode

Standard letter grades

Total contact hours

40

Lecture hours

20

Other hours

20

Prerequisites with concurrency

FIRE 175 or department approval based on agency affiliation.

Course Description

Prepares individuals to safely respond to hazardous materials emergencies. Includes training and education requirements for Hazardous Materials Awareness and Operations level certification, per National Fire Protection Association (NFPA) Standard 472 and State certification requirements per Oregon Department of Public Safety Standards and Training (DPSST). Students will be prepared to test for IFSAC certification.

Course learning outcomes

1. Detect and identify the presence of hazardous material.
2. Survey a hazardous materials/WMD incident from a safe location to identify the name, UN/NA identification number, or type placard applied for any hazardous materials/WMD involved.
3. Collect and identify appropriate hazard and response information from the current edition of the DOT Emergency Response Guidebook.
4. Survey a hazardous materials/WMD incident to identify the containers and materials involved, determine whether hazardous materials/WMD have been released, and evaluate the surrounding conditions.
5. Collect and identify hazard and response information from material safety data sheets (MSDS), CHEMTREC/CANUTEC/ SETIZ, and shipper and manufacturer contacts.
6. Predict the likely behavior of a hazardous materials/WMD agent as well as its container.
7. Estimate the potential harm at a hazardous materials/WMD incident.

Content outline

• Introduction to Hazardous Materials • Hazardous Materials Identification • Awareness-Level Actions at Hazardous Materials Incidents • Introduction to GHS and SDS video • Analyzing the Incident: Identifying potential hazards • DOT ERG Introduction • Analyzing the Incident: Identifying containers and predicting behavior • Planning the Response: Identifying Action Options • Implementing and Evaluating the

Action Plan • Implementing the Response: Terrorist Attacks, Criminal Activities, and Disasters • Implementing the Response: Personal Protective Equipment • Implementing the Response: Decontamination • Implementing the Response: Mission-Specific Detection, Monitoring and Sampling • Implementing the Response: Mission-Specific Detection, Victim Rescue and Recovery • Implementing the Response: Mission-Specific Detection, Product Control • Implementing the Response: Mission-Specific Detection, Evidence Preservation and Public Safety Sampling • Implementing the Response: Mission-Specific Detection, Illicit Laboratories

Required materials

Students will be required to purchase a textbook.