

Revised by: R. Mallard
Reviewed by: C. Bertram
Reviewed by: K. Bandy
C & G Ed approval: October 11, 2010
Board approval: November 11, 2010

Industrial Education Safety (IES) 1108 Hazardous Waste Operations Emergency Response (HAZWOPER)
Annual Refresher (.25 Unit)
[formerly Petroleum Technology 93K]

Prerequisite: Possession of current 24-hour or 40-hour HAZWOPER Technician Certificate

Prerequisite knowledge and skills: Before entering this class, a student should be able to

1. identify and perform initial emergency response to incidents of release of hazardous material and wastes, use an Material Safety Data Sheet (MSDS) and the North American Emergency Response Guide (NAERG) to evaluate and plan for response to various hazardous material and waste releases,
2. inspect, evaluate, and use various personal protective devices and methods including Self Contained Breathing Apparatus (SCBA),
3. set up, administer, and “hand-on” a first responder unified incident command system, and
4. set up and perform a decontamination line.

Total Hours: 4 hours lecture; 4 hours lab (8 hours total)

Catalog Description: This course satisfies general annual refresher training requirements of 29 CFR 1910.120, Hazardous Waste Operations Emergency Response (HAZWOPER). This course is offered on a Pass/No Pass basis with the option to receive a letter grade.

Type of Class/Course: Degree Credit

Textbook: WESTEC generated handouts, unpublished

Additional Required Materials: None

Course Objectives:

By the end of the course, a successful student will be able to

1. describe and function as a Hazmat Technician, Level II,
2. function within a unified Incident Command structure, and
3. perform monitoring duties of the Hazmat responders.

Course Scope and Content:

Unit I Response Team Monitoring

- A. Assuring Health and Safety of Response Team Members while Executing Response Measures

- Unit II Unified Command
 - A. Definition
 - B. Functions
 - C. Incident Command Structure
 - D. Reporting and Relieving Protocols
 - E. Assuming Positions

- Unit III NAERG
 - A. Purpose
 - B. Information Provided
 - C. How to Use

- Unit IV Response Scenarios – Hands on
 - A. In-Field mock-up activities responding to simulated hazardous material release
 - B. Setting Boundaries
 - C. Establishing Incident Command Locations
 - D. Establishing Decontamination Protocols
 - E. Donning SCBA Protection
 - F. Victim Rescue

Lab Content:

1. Field response to simulated hazardous waste spill and gas release using simulator
2. Institution of the Incident command system
3. Set up and practice decontamination techniques
4. Use of NAERG in a field situation

Learning Activities Required Outside of Class: None

Methods of Instruction:

1. Lecture
2. Discussion
3. Hands-on practical exercises

Methods of Evaluation:

1. Written final exam
2. Performance observation of student operation