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Industrial Education Safety (IES) 1109 Emergency Response Technician Training (1Unit)
[formerly Petroleum Technology 94Q]

Prerequisite: None

Total Hours: 12 hours lecture; 12 hours lab (24 hours total)

Catalog Description: Designed to train students to the HAZMAT Technician level. 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Textbook: WESTEC generated handouts, unpublished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 Hazardous Material (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 Environmental Protection Agency (EPA) Guide
- A. Overview of Protection Requirements
 - B. Protective Methodologies
 - C. Choosing protective Measures
- Unit III Unified Command
- A. Definition
 - B. Functions
 - C. Incident Command Structure
 - D. Reporting and Relieving Protocols
 - E. Assuming Positions
- Unit IV North American Emergency Response Guide (NAERG)
- A. Purpose
 - B. Information Provided
 - C. How to Use



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- Unit V HAZMAT Technician Level
- A. Recognizing Emergency
 - B. Reporting Releases
 - C. Isolation and Protection
- Unit VI 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 simulators, etc
- 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