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Industrial Education Safety (IES) 1114 Confined Space Entrant, Attendant, Supervisor Awareness and Rescue (.50 Unit)

[formerly Petroleum Technology 95P]

Prerequisite: None

Total Hours: 8 hours lecture; 8 hours lab (16 hours total)

Catalog Description: Introduces the hazards associated with entry into spaces defined as confined by Occupational Safety and Health Association (OSHA) standard 1910.146. This course is offered on a Pass/No Pass basis only.

Type of Class/Course: Degree Credit

Textbook: WESTEC. *Confined Space for Entrants and Attendants*. WESTEC Energy Publications. unpublished

Additional Required Materials: None

Course Objectives:

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

1. make informed decisions about working safely in and around confined spaces,
2. identify the differences between non-permit and permit-required confined spaces,
3. determine and evaluate the current status of the hazards that are encountered,
4. select the proper personal protective equipment for entry into a confined space,
5. use a confined space entry permit, and
6. interpret atmospheric monitoring results.

Course Scope and Content:

- Unit I Descriptions and Definitions
- A. Characteristics of a Non-Permit/Permit-Required Confined Space
  - B. Types and Frequency of Injuries in Confined Spaces
  - C. OSHA Employer Requirements
  - D. Functional Responsibilities
- Unit II Hazards
- A. Isolating the Confined Space
  - B. Normal Atmospheres and Types of Hazardous Atmospheres
  - C. Physical Symptoms of Various Atmospheric Hazards

- Unit III      Making Safe Entries
- A.      Types and Using Atmospheric Monitors
  - B.      Types of Respirators
  - C.      Other Equipment Used During Confined Space Entries
  - D.      Unusual and Emergency Condition Actions

Lab Content:

- 1.      Donning and doffing set-up and tear-down confined space entry equipment
- 2.      Practice entry and rescue techniques

Learning Activities Required Outside of Class: None

Methods of Instruction:

- 1.      Lecture
- 2.      Discussion
- 3.      Practical exercises and demonstration

Methods of Evaluation:

- 1.      Written final exam
- 2.      Performance observation