

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) 1118 Confined Space Training for Supervisors (.25 Unit)  
[formerly Petroleum Technology 93C]

Prerequisite: Successful completion in Industrial Education Safety 1115 or 1120 with a grade of “C” or better

Prerequisite knowledge/skills:

Before entering the course the student should be able to:

1. adhere to the safety, health and environmental policies and practices at California Oil Producers’ properties,
2. recognize, avoid and/or mitigate hazards commonly encountered while working on petroleum production facilities,
3. recognize both non-permit and permit confined spaces, and
4. exercise cautionary and the necessary measures to prevent injury by hazards found in confined spaces.

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

Catalog Description: This course will satisfy the minimum safety training required by most companies for participants to take ultimate responsibility for safe operations as described in Code of Federal Regulations (CFR) 1910.146. 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Textbook: WESTEC generated handouts, unpublished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 Instructional Materials: None

Course Objectives:

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

1. supervise confined space entry in accordance with federal and state regulations and employer policies.

Course Scope and Content:

- Unit I Supervisor Duties
- A. Determine status of the space
  - B. Assuring space is isolated and emptied
  - C. Isolating the area
  - D. Use of permits
  - E. Atmospheric testing of the area around the space
  - F. Opening the space

- G. Initial internal space atmospheric testing
- H. Initiating the entry permit
- I. Assuring proper personal protective equipment is in use
- J. Arrange for rescue services
- K. Lead pre-entry job and safety meeting with entry team
- L. Monitor job progress
- M. Close the permit
- N. Lead post-entry debrief meeting

Unit II Permits

- A. Elements of a permit-required confined space entry permit
- B. Permit requirements

Unit III Inspection of Permits

- A. Periodic permit review

Unit IV Transferring Authority

- A. Between shifts
- B. From supervisor to supervisor

Unit V Emergencies

- A. Typical in-job emergencies
- B. Possible actions to mitigate
- C. Implementing the rescue plan
- D. Evaluate emergency plans following end of the emergency actions

Unit VI Terminating the Entry

- A. Conditions leading to entry termination
- B. Terminating the permit
- C. Post-entry job evaluation and debriefing

Lab Content:

1. Field demonstration of entry permit use
2. Field demonstration of atmospheric testing and monitoring
3. Field use of non-entry rescue equipment

Learning Activities Required Outside of Class: None

Methods of Instruction:

1. Lecture
2. Group exercises in class
3. Field demonstration and practice

Methods of Evaluation:

1. Written final exam
2. Performance observation