

FIRE 0637 - CONFINED SPACE AWARENESS

Catalog Description

Hours: 9 lecture

Description: Instruction in identifying a permit and non-permit required confined space, the hazards associated with confined spaces, target industries and hazards, state regulations, communications and equipment requirements. This course does not qualify participants to make permit required entries. (not transferable) (not degree applicable) (pass/no pass grading)

Course Student Learning Outcomes

- CSLO #1: Explain codes that affect operations within confined spaces.
- CSLO #2: Differentiate between permitted and non-permitted confined spaces.
- CSLO #3: Explain the hazards of confined spaces.

Effective Term

Fall 2019

Course Type

Credit - Nondegree-applicable

Contact Hours

9

Outside of Class Hours

18

Total Student Learning Hours

36

Course Objectives

1. Critique codes that affect operations within confined spaces;
2. Differentiate between confined spaces and permit confined spaces;
3. Assess the hazards of confined spaces;
4. Evaluate the equipment and procedures required to deal with a confined space rescue safely and legally; and
5. Analyze basic operational positions, and their responsibilities as set forth by Cal/OSHA.

General Education Information

- Approved College Associate Degree GE Applicability
- CSU GE Applicability (Recommended-requires CSU approval)
- Cal-GETC Applicability (Recommended - Requires External Approval)
- IGETC Applicability (Recommended-requires CSU/UC approval)

Articulation Information Methods of Evaluation

- Classroom Discussions
 - Example: In an instructor led classroom discussion, students will outline a policy and procedure for implementing lock-out/tag-out procedures. Grade based on participation and outlining the correct procedure based on industry standards.
- Objective Examinations
 - Example: Students will take a multiple-choice examination on flammable gasses. Standard grading. Example Question: What is the expansion ratio of propane? A.5:1, B. 17:1, C. 70:1, D. 270:1
- Reports
 - Example: Students will write a report outlining types of ventilation plans that can be used in a confined space. Rubric Grading.

Repeatable

No

Methods of Instruction

- Lecture/Discussion

Lecture:

1. The instructor will lead a discussion of current statistics relating to confined space injuries and death. Specific cases of injuries/deaths will be examined and any violations of safety standards or orders will be identified and discussed.
2. The instructor will lecture on confined space vs. permit confined space and students will identify examples of each within their respective agency boundaries.

Typical Out of Class Assignments Reading Assignments

1. The student will read case histories of worker deaths in confined spaces and discuss in class how they could have been prevented.
2. Read the material on atmosphere hazards and list the gases commonly found in confined spaces.

Writing, Problem Solving or Performance

1. Create a Standard Operational Procedure for a confined space entry.
2. Develop a list of desirable qualifications for each of the operational positions identified by OSHA.

Other (Term projects, research papers, portfolios, etc.)

Required Materials

- Fundamentals of Firefighting Skills
 - Author: International Association of Fire Chiefs and National Fire Protection Association
 - Publisher: Jones & Bartlett Learning
 - Publication Date: 2014
 - Text Edition: 3rd
 - Classic Textbook?:
 - OER Link:
 - OER:

- General Safety Orders-Sections 5156,5157,5158
 - Author: Title 8, California Code of Regulations
 - Publisher: State of California
 - Publication Date: 1995
 - Text Edition:
 - Classic Textbook?:
 - OER Link:
 - OER:

Other materials and-or supplies required of students that contribute to the cost of the course.