

APPT 134B: INDUSTRIAL SAFETY

Foothill College Course Outline of Record

| Heading | Value |
|-------------------------|--|
| Effective Term: | Summer 2024 |
| Units: | 4.5 |
| Hours: | 54 lecture per quarter (54 total per quarter) |
| Prerequisite: | Per California Code of Regulations, this course is limited to students admitted to the Plumbing/ Steamfitting & Pipefitting Technology Apprenticeship Program. |
| Advisory: | Not open to students with credit in APPT 134C. |
| Degree & Credit Status: | Degree-Applicable Credit Course |
| Foothill GE: | Non-GE |
| Transferable: | None |
| Grade Type: | Letter Grade (Request for Pass/No Pass) |
| Repeatability: | Not Repeatable |

Student Learning Outcomes

- A successful student will be able to describe the safe use of common personal protective equipment.
- A successful student will be able to list control measures for the elimination and controls of hazards.
- A successful student will be able to properly use and maintain various types of respirators.

Description

Study of the requirements for emergency response to and handling of hazardous materials. Covers laws of chemical hazards, electrical hazards, personal protective equipment, confined spaces, monitoring equipment, and federal and Cal-OSHA standards for the construction industry.

Course Objectives

The student will be able to:

1. Identify regulators and legislation governing hazardous waste operations and response
2. Describe the importance of occupational safety
3. Demonstrate practical application of OSHA standards

Course Content

1. Identify regulators and legislation governing hazardous waste operations and response
 - a. HAZWOPER regulations and standards
 - b. Responsibilities of federal regulators
 - c. Code of Federal Regulations
 - d. Roles of OSHA, EPA, and DOT
 - e. Emergency response

2. Describe the importance of occupational safety
 - a. Six categories of toxic hazards
 - b. Personal protective equipment
 - c. Fall protection
 - d. Respiratory hazards
 - e. Confined space entry
 - f. Hazard communication - MSDS
 - g. Lockout tag out
3. Demonstrate practical application of OSHA standards
 - a. OSHA 30

Lab Content

Not applicable.

Special Facilities and/or Equipment

1. Laboratory with samples of safety equipment.
2. Personal protective equipment.
3. When taught via Foothill Global Access, on-going access to computer with email software and hardware; email address.

Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

Results of written exercises and final examination
Satisfactory completion of hands-on projects
Maintenance of a student's workbook with questions drawn from text

Method(s) of Instruction

Methods of Instruction may include but are not limited to the following:

Lecture
Group discussion
Demonstration

Representative Text(s) and Other Materials

CAL/OSHA. [CAL/OSHA Pocket Guide For The Construction Industry](#). 2015.

CAL/OSHA. [State of California Construction & Electrical Safety Orders](#). 2016.

Mancomm, Inc.. [29 CFR - 1926 OSHA Construction Industry Regulations & Standards](#). 2017.

De Mark, Larry. [Signal Person Training Course Version 4 with Student Guide](#). 2012.

Although these textbooks are older than 5 years, they are the most current books used when teaching this course. We will adopt the next edition of each text, as it is published.

Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

1. Readings from assigned textbooks
 - a. CAL/OSHA Pocket Guide safety regulation lessons
2. Writing assignments
 - a. Essay and exams on the importance of safety rules and regulations governing construction

Discipline(s)

Plumbing