

APSM 171C: SAFETY TRAINING FOR TAB APPRENTICESHIP

Foothill College Course Outline of Record

| Heading | Value |
|-------------------------|--|
| Effective Term: | Summer 2022 |
| Units: | 2.5 |
| Hours: | 30 lecture, 10 laboratory per quarter (40 total per quarter) |
| Prerequisite: | Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program. |
| 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 respond to incidents according to their First Aid/CPR training.
- A successful student will be able to demonstrate awareness of fall protection requirements and equipment.

Description

Students will gain certifications in OSHA 10 compliance, CPR and first aid, fall protection and NFPA 70E arc flash compliance.

Course Objectives

The student will be able to:

1. Successfully complete training for OSHA 10 requirements
2. Successfully complete first aid/CPR training
3. Successfully complete fall protection training
4. Successfully complete NFPA 70E training

Course Content

1. Successfully complete training for OSHA 10 requirements
 - a. Describe basic OSHA safety requirements for construction (Lec)
 - b. Describe the focus four hazards (Lec)
 - c. Describe types of personal protective equipment and demonstrate their usage (Lec)
 - d. Describe health hazards in the construction industry (Lec)
 - e. Describe proper safety techniques when using power tools (Lec)
 - f. Describe the proper safety protocols for stairwell and ladder usage (Lec)
2. Successfully complete first aid/CPR training

- a. Successfully complete basic first aid and CPR training (Lec and Lab)
 - b. Describe the various types of eye protection (Lec and Lab)
3. Successfully complete fall protection training
 - a. Describe fall protection equipment (Lec and Lab)
 - b. Demonstrate proper usage of fall protection equipment (Lec and Lab)
 4. Successfully complete NFPA 70E training
 - a. Define the NFPA 70E standard and its application (Lec and Lab)
 - b. Define "qualified" vs. "non-qualified" personnel (Lec and Lab)
 - c. Describe protective clothing and how to utilize the PPE tables in NFPA 70E
 - d. Describe electrical and arc flash dangers when servicing equipment (Lec and Lab)
 - e. List common electrical hazards found on construction sites (Lec and Lab)
 - f. Describe best practices to avoid injury from electrical hazards and arc flash (Lec and Lab)

Lab Content

1. Demonstrate proper usage of fall protection equipment
2. Demonstrate skills required for first aid and CPR training

Special Facilities and/or Equipment

1. Laboratory with sheet metal test and balance tools and sample system components
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 quizzes and tests

Responses in class discussions

Demonstration of assigned skills to acceptable level per instructor

Method(s) of Instruction

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

Lecture

Discussion

Demonstration

Lab assignments followed by discussion

Representative Text(s) and Other Materials

International Training Institute for the Sheet Metal and Air Conditioning Industry. Testing, Adjusting & Balancing of Environment Systems. 2003.

This is the standard sheet metal textbook/workbook used for this course. Although it may not be within five years of the required published date, it is the most current book used when teaching this course.

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

1. Sample reading assignment: From the textbook, read safety sections
2. Sample writing assignment: List common electrical hazards found on construction sites

Discipline(s)

Sheet Metal