

# 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:

- Successfully complete training for OSHA 10 requirements
- Successfully complete first aid/CPR training
- Successfully complete fall protection training
- Successfully complete NFPA 70E training

## Course Content

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

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

## Lab Content

- Demonstrate proper usage of fall protection equipment
- Demonstrate skills required for first aid and CPR training

## Special Facilities and/or Equipment

- Laboratory with sheet metal test and balance tools and sample system components
- Personal protective equipment
- 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**

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

## **Discipline(s)**

Sheet Metal