

# APPT 170: UA FOREMAN TRAINING & PIPING INDUSTRY REVIEW

## Foothill College Course Outline of Record

Heading	Value
<b>Effective Term:</b>	Summer 2025
<b>Units:</b>	4.5
<b>Hours:</b>	36 lecture, 66 laboratory per quarter (102 total per quarter)
<b>Prerequisite:</b>	Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program.
<b>Degree &amp; Credit Status:</b>	Degree-Applicable Credit Course
<b>Foothill GE:</b>	Non-GE
<b>Transferable:</b>	None
<b>Grade Type:</b>	Letter Grade Only
<b>Repeatability:</b>	Not Repeatable

## Student Learning Outcomes

- A student will be able to use code changes on the drawings in the class.
- A student will be able to apply advanced plan reading and interpretation to the drawings.
- A student will be able to properly apply the plumbing code related to the changes in the industry.

## Description

Advanced piping course of the Plumbing and Pipefitting Apprenticeship program. This course provides students with a working knowledge of Plumbing Codes and review of how changes affect the Plumbing Codes.

## Course Objectives

The student will be able to:

1. Readdress the code related to the changes in the industry as well as use them on the drawing portion on the class
2. Demonstrate advanced plan reading and interpretation
3. Exhibit supervision of job site management, coordination, and scheduling, through the UA Foreman Certification

## Course Content

1. Drawing and code(s)
  - a. Change orders to drawing
  - b. Approval process
2. Advanced plan reading
  - a. Detailed mechanical review
  - b. Detailed structural review
3. Job sites

- a. Supervise plumbing job sites and manpower
- b. Scheduling
- c. Multi-trade coordination

## Lab Content

Students will address the Plumbing Codes in the lab, which includes:

1. Procedures for making formal revisions to drawings when codes callouts change
2. Uniform Plumbing Code review
  - a. Exam preparation

## Special Facilities and/or Equipment

1. Laboratory with drawing tables and overhead projector
2. Drawing utensils and calculators
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:

Written examination  
Hands-on demonstration  
Chapter quizzes  
Group and classroom participation  
Punctuality

## Method(s) of Instruction

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

Lecture  
Discussion  
Laboratory  
Demonstration

## Representative Text(s) and Other Materials

United Association of Journeymen and Apprentices. Advanced Plan Reading and Drawing. 2020.

International Association of Plumbing and Mechanical Officials. California Plumbing Code. 2022.

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

1. Readings from the textbook
  - a. Application of advanced CAD commands on a workstation
2. Writing assignments are related to the assignments given throughout the course, to include:
  - a. Practice and review of each section in the above course content
  - b. STAR Test administered in class
3. Junior Mechanics exam preparation writing assignments, related to the assignments given in the laboratory

- a. Math calculations for isometric and 3-D drawings
- b. Plumbing Code practice exams for the handouts throughout the course

## **Discipline(s)**

Plumbing