

APPRENTICESHIP - PLUMBING AND PIPEFITTING

Program Description

Plumbing and Pipefitting Apprenticeship is offered in partnership with the UA Local 62 and the UA Local 467 Plumbers & Steamfitters. It is a 5-year registered apprenticeship program. The program provides students with in-class instruction and paid on-the-job training. Students will learn how to build, assemble, and maintain sophisticated piping systems in various industrial and residential facilities and will learn basic and advanced skills in plumbing and building mechanical systems related to new construction and remodels.

Per California Code of Regulations, this program is limited to students admitted to the UA Local 62 and the UA Local 467 Plumbers & Steamfitters.

Learn more about the program on the [Apprenticeship website](#).

Program Learning Outcomes

- Students will be able to recognize and classify materials used in the plumbing industry.
- Students will be able to demonstrate proper use and care of industry tools and equipment.
- Students will be able to recognize and apply on-the-job safety standards.
- Students will be able to assemble piping systems using the latest codes and industry standards.
- Students will be able to draw, interpret, read plans in the plumbing industry.

Career Opportunities

Graduates will be prepared to work as a Foreman, General Foreman, Superintendent, Project Manager, Estimator, Detailer, Building Trades Inspector, Building Trades Instructor, and Union Business Agent/Business Manager in the energy, biopharmaceutical, healthcare, aerospace, construction, housing, water treatment, and food and beverage processing industries.

Award Type(s)

- AS = Associate in Science Degree
- CA = Certificate of Achievement

Units Required

- Major: 45-49
- Certificate(s): 45-49

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ENGL 1S & ENGL 1T	INTEGRATED COMPOSITION & READING and INTEGRATED COMPOSITION & READING	8

ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		

Mathematics Proficiency

College-level math course at or above the level of Intermediate Algebra

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (45-49 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core courses used for the degree or certificate.

Core and Support Courses

Code	Title	Units
<i>Pathway #1 - UA Local 467 students:</i>		45
APPT 161	SAFETY/OSHA/TOOLS/HERITAGE/SERVICE	
APPT 162	MATHEMATICS/SCIENCE FOR THE PLUMBING TRADE	
APPT 163	CODE/WATER SUPPLY SYSTEMS	
APPT 164	DRAWING I FOR THE PLUMBING TRADE	
APPT 165	DRAWING II FOR THE PLUMBING TRADE	
APPT 166	WELDING/OXY-ACETYLENE TRAINING	
APPT 167	STEAM SYSTEMS/RIGGING/PIPE FITTING & SERVICE	
APPT 168	MEDICAL GAS/HYDRONICS/SIGNAL PERSON	
APPT 169	ADVANCED DRAWING/LAYOUT FOR THE PLUMBING TRADES/UA FOREMAN TRAINING	
APPT 170	CODE II/JUNIOR MECHANICS REVIEW & EXAM	
<i>Pathway #2 - UA Local 62 students:</i>		47.5-49
APPT 147B	SF 401B INDUSTRIAL RIGGING	
APPT 171	BASIC REFRIGERATION/HERITAGE/CFC/OSHA 10 or APPT 190 PIPE FITTING WITH A CALCULATOR or APPR 160 HVAC TECH, CUSTOMER SERVICE	
APPT 185	PIPE MATERIALS, SAFETY & TOOLS, SOLDERING & BRAZING	
APPT 186	MATHEMATICS/RIGGING & SIGNALING	
APPT 187	DRAWING INTERPRETATION & PLAN READING/SCIENCE	
APPT 189	WELDING/OXYGEN-ACETYLENE or APPT 196 BASIC ELECTRICITY, ELECTRICAL CONTROLS FOR MECHANIC EQUIPMENT or APPT 198 PLUMBING SERVICE & REPAIR	
APPT 191	PLUMBING CODE APPLICATION, PLUMBING FIXTURES	
APPT 192	NATURAL GAS INSTALLATION, DRAINAGE	
APPT 193	WATER SUPPLY, PATTERNS	
APPT 194	MEDICAL GAS, REVIEW EXIT EXAM/FINAL EXAM	

APPT 195 HYDRONICS/STEAM SYSTEMS/PUMPS

Total Units **45-49**

Certificate Requirements

Certificate of Achievement in Plumbing and Pipefitting Apprenticeship

Formerly: Certificate of Achievement in Plumbing/Pipefitting/Pipe Trades
Apprenticeship

- Units: 45-49

The certificate of achievement is awarded upon completion of the core
courses. General education courses are not required.

Currently offered at: Monterey and San Mateo.