

# MAKE THE CAREER CONNECTION

for

## ***PLUMBING***

**YOUR ROP TRAINING  
LEADS TO JOBS as....**

### **Entry Level**

(High School Diploma/ROP Training)

Plumber, Apprentices

Plumbers Helper

2, 3, 4th year Apprentice

### **Technical Level**

(Community College Degree/ROP)

Apprenticeship Program

Journey Person Plumber

Project Foreman

Project Superintendent

Students will benefit by having knowledge of drafting, technical, reading, and math skills.

## WHAT IS ROP?

The Baldy View Regional Occupational Program is a cooperative vocational education effort between the Chaffey Joint Union High School District, ChinoValley Unified School District, Claremont Unified School District, and Upland Unified School District. ROP's purpose is to provide a wide variety of career preparation at the entry and technical levels to meet the needs of high school students and adults.

***Prepare for YOUR future NOW  
by enrolling in ROP TODAY!***

## ENROLLMENT INFORMATION

High school students should contact the Career Technician at their high school.

Adults should call Baldy View R.O.P. office for specific enrollment dates and available classes.

**(909) 624-0063**

**[baldviewrop.com](http://baldviewrop.com)**

Enrollment priority:

- ❖ High School Students: seniors, juniors, sophomores, 16 yrs. of age and older.
- ❖ Adults living within our geographical service area.
- ❖ Adults living outside our geographical service area

Baldy View ROP is an equal opportunity employer and asserts that it does not discriminate on the basis of race, color, creed, national origin, ancestry, religion, sex, age, or handicap in its employment or enrollment in job training programs.

# PLUMBING



A career preparation program designed to provide related instruction and practical experience.



## WHAT DOES THE PROGRAM PREPARE ME TO DO

Plumbers assemble, install, and repair pipes, fittings, and fixtures of water, gas, and waste disposal systems. They work with piping systems that transport liquid, gas, or semisolid material. Their work includes the installation of sinks, tubs, and other fixtures and their connection to water and sewage systems. Plumbers also maintain existing plumbing systems.

In new construction work, Plumbers must be able to read and follow blueprints so plumbing lines are placed and installed correctly. They plan the job, determine the size and type of pipe to be used, and select the proper fixtures. They layout the exact route the piping will take. The pipe is cut to correct lengths and fitted with valves and other types of connections. Pipes and connections may be copper, glass, lead, plastic, ceramic, cast iron, or steel.

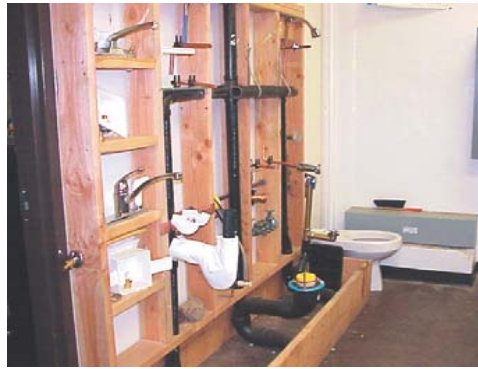
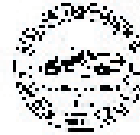
### THIS COURSE INCLUDES:

- ❖ Basic plumbing tool usage
- ❖ Identify fixtures, faucets and valves
- ❖ Plumbing applications
- ❖ Safety practices
- ❖ Lifting and handling techniques
- ❖ Plumbing codes
- ❖ System and theory
- ❖ Major appliances
- ❖ Piping systems
- ❖ Repairs and procedures
- ❖ Insulation
- ❖ Understanding mathematics of fluid flow
- ❖ Isometric and orthographic drawing
- ❖ Layout and ground work
- ❖ Venting, water and gas lines
- ❖ Solar systems
- ❖ Appliance wiring
- ❖ Flush valves

## STUDENT OUTCOMES

Upon successful completion of an ROP course, each student will:

- ❖ Demonstrate occupational specific, communication and critical thinking skills
- ❖ Demonstrate responsible work ethics
- ❖ Demonstrate career/employment literacy
- ❖ Demonstrate effective use of technology



## EMPLOYMENT AND TRAINING

Although some Plumbers learn their skills informally on the job, most complete an apprenticeship program. Apprenticeship programs vary but generally last four to five years. The program consists of full-time supervised on-the-job training and concurrent classroom instruction. Required courses include drafting, blueprint reading, mathematics, and local plumbing codes and regulations. Upon completion of the program, apprentices must pass a union-administered trade test and a city licensing test, regulated by the California State Division of Apprenticeship Standards. Candidates for the apprenticeship program must possess a high school diploma or its equivalent, and pass aptitude tests.

Usually, unions accept applications for apprenticeship programs each spring. When program enrollment is sufficient to fill job openings, unions may not accept applications until occupational demand is up.

## SPECIAL CONSIDERATIONS

- ❖ Minimum age - 16 years old or 11th grade
- ❖ Interest in the plumbing field
- ❖ Ability to work independently
- ❖ Ability to understand and carry out instructions
- ❖ Ability to read and write in English and recall information
- ❖ Attention to detail and accuracy
- ❖ Good manual dexterity and motor coordination
- ❖ Dress requirement: professional dress as required by the community site

## ROP TEACHERS

ROP teachers know the job market, have business and industry experience within the field they teach and are credentialed. **LEARN FROM THE BEST WITH ROP TEACHERS.**

## COURSE LENGTH

One semester course; additional semester available for active apprentices

## ROP CERTIFICATE OF TRAINING

An ROP certificate of completion, including competencies, is awarded to students who complete the course.

## HIGH SCHOOL CREDITS

Upon successful completion of the class, credits earned in ROP are forwarded to each student's high school. These credits may be applied toward fulfillment of the requirements for a high school diploma.