



# Plumbing Pre-Apprenticeship

Department: Industrial Technologies

Degree: Diploma

Entry time: Fall

Length: 1 year (2 semesters)

- The **only post-secondary program** in the state and one of only a handful of plumbing programs in the Midwest.
- The Plumbing Pre-Apprenticeship program utilizes current, up-to-date curriculum to **prepare graduates to enter the plumbing industry**.
- **Hands-on lab activities** reinforce skills learned in class and prepare students for the jobsite.
- **Internships** in the Plumbing Pre-Apprenticeship program link employers to Kirkwood students with over 90 percent of internships leading directly to full-time employment.
- Many area plumbing **contractors** **request student interns** on a regular basis.
- Graduates from the Plumbing Pre-Apprenticeship program have **nearly a 100 percent employment placement rate** into the plumbing industry.

## Program Description

The Kirkwood Plumbing Pre-Apprenticeship program provides entry-level skills and knowledge for students preparing to enter the plumbing industry. Classes in the first semester focus on safety, hand and power tools, materials, pipe joining methods, code book layout, plan and print reading, and trade calculations. Hands-on classes concentrate on pipe joining, pipe materials and basic pipe fitting practices. In addition, students will design and construct a three-fixture washroom group.

The second semester covers plumbing code requirements, installation requirements for drain, waste and vent systems, water pipe systems, gas pipe systems, gas venting systems, and cross connection and backflow prevention.

## Career Opportunities

Plumber  
Plumbing service technician

## Sample Classes

Applied Plumbing Math  
Plumbing Theory  
Plumbing Practices  
Plan and Print Reading for Plumbing  
Plumbing Math Concepts  
Advanced Plan and Print Reading  
Workplace Communications  
Oral Communications in the Workplace

## Industry endorsements earned:

OSHA 10-Hour General Construction;  
Adult First Aid with CPR.

## Scholarships

Kirkwood will help you pay for college! Kirkwood awards more scholarships than any other community college in Iowa. For more information and to apply, visit [www.kirkwood.edu/scholarships](http://www.kirkwood.edu/scholarships).

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