



## **PHCC Academy® Plumbing Pre-Apprentice Syllabus**

Welcome to the PHCC Academy® Online Plumbing Pre-Apprentice Course!

### **Course Description**

An introductory course designed to help entry level plumbing workers be productive as helpers, and assist in determining an appropriate career training path. The course offers an in-depth introduction into plumbing definitions & principles, customer service & soft skills, safety, science & math, plumbing systems & products, and gas & gas fixtures.

### **Module 1: Foundations**

- Plumbing Definition, Types of Work and Impact on History
- Plumbing Responsibility and the Purpose of Codes and Licensing
- Plumbing Basic Principles and Skills
- Customer Service & Soft Skills

### **Module 2: Safety**

- General Jobsite Safety
- EMS Services and Training
- Fire Protection and Electrical Lockout/Tagout
- Tool Safety and Personal Protective Equipment
- Electrical Safety

### **Modules 3a & 3b: Science and Math**

- Water, Air, Gas and Electricity
- Math Problem Solving Process
- Measurements and Dimensions

## **Module 4: Plumbing Systems and Products**

- Building Drains, Sewers, Stacks & Vents
- Piping
- Valves & Pumps
- Leaks and Stoppages

## **Module 5: Troubleshooting (Fixtures)**

- Sinks, Faucets, and Disposers
- Toilets and Bidets
- Bathtubs and Lavatories

## **Module 6: Troubleshooting (Gas)**

- Fuel Gases and Gas Systems
- Hydronic Heating
- Gas Safety & Ventilation

## **Final Exam**