

PHCC Academy®

Plumbing 401 2nd Edition Syllabus

Course Contact for Registration and Non-LMS Questions

State Chapter Partner

Refer to <https://phccacademy.org/state-chapter-partner-contacts/>

Course Contact for Technical Problems in Absorb LMS

PHCC Academy® Staff - AcademySupport@naphcc.org

Prerequisites

Plumbing 101, 201 and 301 or equivalent

Welcome to the PHCC Academy® Online Apprenticeship-Related Technical Instruction course for Plumbing 401!

This program is designed to provide students who cannot attend classes in a traditional apprenticeship program with the same opportunity to learn the textbook fundamentals of the trade. This training course must be supplemented by your employer, through both technical assistance and on-the-job training in each area of instruction in the book.

Course Goals

- To familiarize students with service and repair techniques
- To provide students with an understanding of system sizing using blueprint reading techniques
- To familiarize students with methods for protecting the water supply
- To introduce students to heating systems and techniques
- To provide students with an understanding of pumps
- To familiarize students with the plumbing code and its application in field work

Required Textbook (Purchased Separately)

PHCC Educational Foundation Plumbing Apprentice & Journeyman Training Committee (2020). Plumbing 401, 2nd ed. Boston, MA: Cengage Learning

Assignments

In each module you will be required to do the following:

- Read Chapter
- Review PowerPoint
- Watch Lesson
- Take Exam

The Modules are titled as follows:

- Module 1: Service and Repair: Fixtures
- Module 2: Service and Repair: Water and Fuel Gas Distribution
- Module 3: Service and Repair: DWV Systems
- Module 4: Sizing DWV and Storm Drainage Systems
- Module 5: Sizing Water Distribution and Fuel Gas Piping Systems
- Module 6: Indirect and Special Wastes
- Module 7: Protection of the Water Supply
- Module 8: Steam Heating
- Module 9: Hydronic Heating and Controls
- Module 10: Forced Air Heating and Alternative Heating Systems
- Module 11: Pumps
- Module 12: Blueprints, Isometrics, and Material Take-Offs
- Module 13: Plumbing Code Administration and Licensing
- Module 14: Plumbing Fixtures and Minimum Fixture Requirements
- Module 15: Plumbing Codes: Water Heaters
- Module 16: Water Supply and Distribution
- Module 17: Plumbing Codes: Sanitary Drainage
- Module 18: Plumbing Codes: Indirect Wastes
- Module 19: Plumbing Codes: Vents
- Module 20: Plumbing Codes: Traps and Interceptors
- Module 21: Plumbing Codes: Storm Drainage
- Module 22: Plumbing Codes: Fuel Gas Piping
- Module 23: Plumbing Codes: Healthcare Facilities, Medical Gas, and Vacuum Systems
- Module 24: Plumbing Codes: Non-potable Water Systems
- Comprehensive Final Exam