

PHCC Academy®

Plumbing 301 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 and 201 or equivalent

Welcome to the PHCC Academy® Online Apprenticeship-Related Technical Instruction course for Plumbing 301!

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 fixtures and appliances
- To familiarize students with installation methods for fixtures and appliances
- To provide students with an understanding of blueprints, drawing types, and plumbing plans
- To introduce students to fuel gas piping systems and appliances
- To introduce students to advanced mathematical concepts used in plumbing work
- To provide students with an understanding of electrical concepts related to plumbing work

Required Textbook (Purchased Separately)

PHCC Educational Foundation Plumbing Apprentice & Journeyman Training Committee (2017). Plumbing 301, 2nd ed. Clifton Park, NY: Delmar, 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 - Workplace Etiquette & Productivity
- Module 2 - Fixtures and Appliances: Residential
- Module 3 - Fixtures and Appliances: Commercial, Industrial, and Institutional
- Module 4 - Installation Methods
- Module 5 - Fixture Fittings, Trim, and Installation
- Module 6 - Principles of Hydronic Systems
- Module 7 - Blueprints and Specifications
- Module 8 - Drawing Types: Floor and Site Plans
- Module 9 - Plan Types: Structural, Plumbing, Electrical, and HVAC Plans
- Module 10 - Fuel Gas Installations: Gas Code, Materials, and Types
- Module 11 - Fuel Gas Installations: Piping's, Fittings, Connections
- Module 12 - Installations Appliance Regulators, Meters, and Controls
- Module 13 - Plumbing Code: Administration and Licensing
- Module 14 - Plumbing Code: Fixtures and Minimum Fixture Requirements
- Module 15 - Plumbing Tools: Elevation and Grades
- Module 16 - Plumbing Tools: Levels, Transits, and Trench Safety
- Module 17 - Plumbing Calculations: Offsets and Ratios
- Module 18 - Plumbing Calculations
- Module 19 - Storm Drainage and Sizing Storm Drains
- Module 20 - Cross Connections
- Module 21 - Ejector Systems
- Module 22 - Plumbing System Conditions: Temperature and Humidity
- Module 23 - Water Treatment
- Module 24 - Water Heaters: Heat Sources and Ancillary Piping
- Module 25 - Electrical Safety: Electric Current and Motors
- Module 26 - Electrical Safety: Circuitry and Wiring
- Module 27 - Electrical Safety: Troubleshooting Circuits
- Comprehensive Final Exam