



APPR 1011 Apprentice Plumber 1A 90 Clock Hours

This course can be a springboard into a much demanded and secure profession. The primary emphasis is the understanding and interpretation of the International Plumbing Code, materials and requirements, blueprint reading, practical mathematics required in the trade, and other subject areas that are essential to the trade that are more conducive to the classroom setting than a work situation. This program will satisfy the educational requirements to take the State Journeyman Plumber Exam. To complete the entire Apprentice Plumbing Program an individual must be licensed through the State and work under the supervision of a licensed Journeyman Plumber. A basic assessment is required prior to enrolling.

Apprentice Plumbing 1A course objectives are:

- Certify in First Aid CPR and AED
- Practice Safety, use Tools and Leveling Instruments
- Define of Hydraulics and Pneumatics
- Utilize Rigging and Hoisting
- Interpret Building and Plumbing Codes
- Apply Basic Mathematics
- Fabricate Plumbing projects in a lab setting

APPR 1021 Apprentice Plumber 2A 90 Clock Hours

Prerequisite: APPR1012 Apprentice Plumber 1B.

This course introduces the fundamental Plumbing theory for the Apprentice Plumbers and will cover the International Plumbing and Mechanical Codes, related math and craft skills.

- Describe Water Supply and Distribution, Sanitary Drainage, Indirect/Special Waste, Vents, and Traps, Interceptors and Separators
- Identify the many different fixtures designed for residential and small commercial buildings.
- Apply the principles for designing DWV and water supply systems that will provide long and satisfactory service
- Describe how to determine the size of water supply piping.
- Define how to support and test both DWV and water supply systems
- Fabricate several piping projects in a lab situation

APPR 1031 Apprentice Plumber 3A 90 Clock Hours

Prerequisite: APPR1022 Apprentice Plumber 2B.

This course introduces the fundamental Plumbing theory for the Apprentice Plumbers and will cover the International Plumbing Code, related math and craft skills.

- Identify Materials Detrimental to Sewer System
- Determine Protection of Pipes and Plumbing system Components
- Provide Washroom and Toilet Room Requirements
- Describe Specialty Plumbing Fixtures
- Determine Water Heater, Vents, and Combustion Air installations
- Calculate Combustion Air, Chimneys and Vent Sizes
- Determine volume of Rectangular Solids, Cylinders
- Fabricate several piping projects in a lab situation

APPR 1041 Apprentice Plumber 4A 90 Clock Hours

Prerequisite: APPR1032 Apprentice Plumber 3B.

This course introduces the fundamental Plumbing theory for the Apprentice Plumbers and will cover the International Plumbing Code, related math and craft skills.

- Define different Traps and Commercial Applications
- Explain Storm Drainage and Commercial/Industrial Application
- Identify Boilers, Water Heaters, and Pressure Vessels
- Perform Applied Trade Formulas through different equations
- Calculate Heat Loss vs. Radiator Size.
- Determine Radiation Sizing for Total Heat Loss of a Room
- Describe the basic types of welding and cutting used in the plumbing industry.
- Fabricate several piping projects in a lab situation