

# 2020-2021 Apprenticeship Program

## Plumbing Level 3 Course Outline

This is the third year, of four, in the Registered Plumbing Apprenticeship program. This level further develops what was previously learned by applying the current International Plumbing Code (IPC) + the current Vermont Plumbing Rules to everyday work. This year is based on residential and light commercial applications. Noteworthy, the code + rules are written in a quasi-judicial language and are hard for students to understand. Students are instructed on how to find and understand this information in the 13 chapters of the code. This level emphasizes water regulations, sizing, engineering tables and charts, plus DWV using tables and charts.

This year will specifically cover the following topics:

- **Applied Math**
  - Angles (45 degrees)
  - Area
  - Basic Fractions
  - Cylinders
  - Rectangles
  - Volume
- **Backflow Preventers**
- **Blueprint Reading**
- **Compressed Air**
  - VOSHA Safety Regulations
- **IPC Code Book Review**
  - Definitions
  - How to find information
  - Index
  - Table of Contents
- **Potable Water Treatment**
- **Piping**
  - ADA Code/Compliance
  - Corrosive-Resistant Waste Piping
  - Pex Charts
  - Rough in Sheets
  - Water Supply Piping - Sizing
- **Pumps**
  - Sewage Pumps
  - Sump Pumps
- **Venting**
  - Types of Venting
  - Sizing DWV & Storm Systems
- **Water - Service Plumbing**