2020-2021 Apprenticeship Program
Plumbing Level 4 Course Outline

This is the fourth and final year in the Registered Plumbing Apprenticeship program. This final year prepares students to successfully pass the Vermont Plumbing Journeyman's Licensure Exam by reviewing the last three years of accumulated knowledge / learning. Students fine tune how to use the current code book and Vermont Rules quickly to locate information needed. Students practice using simulated Journeyman's Exam questions and are timed in order to become comfortable with the time limit on the exam. This level incorporates all 13 Chapters in the current code book, with emphasis on the following topics:

- **Business Principles for Plumbers**
- **Drain, Waste & Vent (DWV)**
  - Understand and apply Chapters 4 (Fixtures), 8 (Indirect and Special Waste), 7 (Sanitary Drainage), 9 (Vents), and 10 (Traps, Interceptors and Separators) of the current code book.
- **Fixtures, Faucets & Fixture Fittings**
- **Indirect & Special Waste**
- **Sanitary Drainage**
- **Storm Drainage**
  - Understand the Code enforceable items in Chapter 11 of the current code book. Demonstrate sizing the storm drainage systems using all the sizing tables therein.
- **Water Heaters**
  - Understand the code enforceable items in Chapter 5 + Section 607 of the current code book.
  - Size water heating to include BTU gains and safety.
- **Water Supply & Distribution**
  - Understand and apply Chapter 6 (Water Supply & Distribution) + Appendix E (Water Pipe Sizing) of the current code book.
  - Apply the above on the jobsite.
  - Size water distribution systems for residential and light commercial applications.
  - Learn and understand specific enforceable code regulations and technical terms.
  - Size water flow pressure drop variables. Backflow is emphasized.

The second half of the fourth year will be a **complete review** of the **2018 IPC & 2018 VT Plumbing Rules.**

Instructors will actively work to prepare apprentices for the journeyman licensure exam, which will include timed prep exams throughout the entire year.