



# ACCELERATED TRAINING INSTITUTE

Online Training and Certification in Trade Skills Knowledge

## PLUMBING TECHNICIAN COURSE OUTLINE

**30 Instruction Hours • 75 Study Hours • Self-paced—completed within 1 to 12 Months**  
**No Prerequisites • Certificate in Plumbing Theory • Distance education-delivered by**  
**video instruction with instructor support available by email or phone.**  
**Online exam only—no hands-on skills assessment**

This comprehensive knowledge-based Plumbing Course teaches the A-Z of the plumbing trade and is taught by a licensed plumbing instructor, rapidly preparing students for entry-level work in plumbing. Receive consistent, high-level instruction in everything related to plumbing in topics such as tools, safety, the Uniform Plumbing Code (UPC), all major systems and subsystems such as: drain, waste and vent, toilets, laves, tubs, fixtures, water heaters, commercial grease traps and so much more! You'll learn the rough-in, top-out and installation of all new construction plumbing, as well as basic plumbing repair and maintenance. Students study and complete the course at a pace they control, with sufficient retention of the knowledge to pass their exams with a score of 80% or higher.

Completion of this Plumbing Course prepares individuals for entry-level employment in positions involving Maintenance Plumbing, Plumbing Assistance and the plumbing work involved in General Maintenance and Repair positions such as Maintenance Mechanic, Facilities Maintenance Technician, and Building Maintenance and Repair Technician.

- ***This course is not intended to lead to becoming a Licensed Plumber.***
- *Certificates of this School do not qualify an individual to work as a licensed Plumber or as a licensed Contractor.*
- *General Maintenance and Repair (SOC 49-9071 US Department of Labor), is a non-licensure occupational classification as are various trade assistant jobs in plumbing, including but not limited to (49-3015, Helpers-Pipe/ayers, Plumbers, Pipefitters, Steamfitters [US Department of Labor]). For more occupational information on these and related SOC's go to: [www.bls.gov](http://www.bls.gov) or [www.onetonline.org](http://www.onetonline.org).*
- *Only employees working on their employer's premises, or individuals working on their own residence, may perform plumbing work without a Journeyman or Contractor's License. Additionally, maintenance employees are prohibited from certain types of plumbing work without a license. Permissible tasks for maintenance workers involve repairing and replacing of existing plumbing systems, operating and maintaining plumbing systems, and working directly with licensed Plumbing Journeymen. A self-employed individual may not perform any plumbing (except on their own residence) without a Plumbing Contractor's License.*
- *In order to become a licensed Plumber, an individual must be at least 16 years of age, register as an apprentice plumber, be employed by a licensed Plumbing Contractor, complete work under constant supervision of a licensed Plumbing Journeyman or Master employed by the Plumbing Contractor, and be enrolled in or have completed a four-year training program at an approved school. In order to become a licensed Journeyman Plumber, an individual must have completed 8,000 hours of qualified plumbing work as a registered apprentice under the constant supervision of a licensed Journeyman Plumber, and passed the licensure exam.*
- *For more information, go to <http://dbs.idaho.gov>.*

(continued next page)

# PLUMBING TECHNICIAN COURSE OUTLINE (CONTINUED)

## EQUIPMENT AND MATERIALS USED IN THIS COURSE

An internet-capable computer, internet connection, web browser, textbook, online examinations and information.

## CURRICULUM

Note: This curriculum references only key instructional content and is not inclusive of the entire curriculum. For the complete curriculum, request the Course Syllabus.

1. Drain, Waste & Vent (DWV) Systems:
  - a. Safety
  - b. Principles of Water
  - c. Sanitary Drainage Systems
  - d. Specific Sub-Systems and Components
  - e. Measure Fittings and Cut Pipe
  - f. Designing a Residential Drainage System
  - g. Plans/Drawings
  - h. DWV Installation Tools
  - i. DWV Pipe Installation
  - j. DWV Bathroom Module
  - k. Layout for Bathtub, Lave, Water Closet
  - l. Connecting Fittings
  - m. Drilling Holes
  - n. Rough-in Water Closet
  - o. Water Closet DWV
  - p. Bathroom Module DWV
  - q. Special Systems of DWV
  - r. Cutting Cast Iron
  - s. Lead and Oakum
  - t. Pouring a Joint
  - u. Lead Pipe
  
2. Water Supply Systems:
  - a. Residential Water
  - b. Special Devices for Water
  - c. Piping Systems
  - d. Layout for Water
  - e. Plan Review
  - f. Hanging Pipe
  - g. Measuring for Water
  - h. Cutting Copper Pipe
  - i. Soldering
  - j. Cutting Water Pipe
  - k. Installation of Water Pipe
  - l. Cut Sheets
  - m. Layout of Water
  - n. Testing the Water Systems
  - o. Chilled Water
  - p. Heating Water
  - q. Fire Sprinklers
  - r. Water Treatment Filtration
  
3. Commercial Plumbing Service & Repair:
  - a. Fuel Gas Systems
  - b. Residential Job Sites
  - c. Trim & Finish
  - d. Tankless Water Heater
  - e. Commercial Plumbing Systems
  - f. Fire Sprinkler Systems
  - g. Fuel Gas Systems
  - h. Well Systems
  - i. Kitchen Sink Systems
  - j. Skills Sets

## TESTING AND CERTIFICATE REQUIREMENTS

When you complete the video instruction in the Plumbing Course, you will take an online examination to test your knowledge . Also, for each of the assigned chapters in your Plumbing textbook, you may optionally complete an end-of-chapter quiz. Quizzes are optional study tools to support passing your final exam. Exams are online, not timed, and are open book, open video. Once started, an online exam may be suspended but must be completed within 60 days. When you pass your final exam with a score of 80% or higher, you will receive a Plumbing Theory Certificate.