



Plumbing Industry Professional Education

PLUMBING APPRENTICESHIP PROGRAM

About the Program

P.I.P.E. Program is provided in conjunction with local contractors and construction associations and utilizes NCCER Contren Curriculum. This curriculum is nationally recognized, standardized and portable, and incorporates both formal classroom instruction and hands-on training. In addition, instructors are required to have a journeymen's license or higher and have at least 6 years field experience. The plumbing program is governed by an Advisory Committee representing the participating contractors.

Term of Apprenticeship

The term of apprenticeship consists of four years or 8,000 hours (approximately 2,000 hours per year) of on-the-job training, and four years or 720 hours (approximately 180 hours per year) of related classroom instruction.

Class Schedule

All classes and labs are held at:

Orange Technical College—West Campus

Tuesday & Thursday from 6:00pm—9:00pm

AND AT

Orange Technical College—Eatonville Campus

Monday & Wednesday from 6:00pm—9:00pm

Eligibility

Apprentices must be at least 18 years of age and be employed by a participating licensed plumbing contractor. Apprentices must be physically able to perform the work of the trade and have a reliable mode of transportation to work and school. Apprentices **MUST** be able to read, write, and understand English.

Credit

If the following conditions are met, an apprentice may advance up to two (2) years in the program.

Provide documentation of a minimum of 2,000 hours of on-the-job-training per level being advanced.

Pay a fee of \$100 per advanced placement test administered.

Pass advancement test required for each level with a score of 80% or better.

Tuition and Costs

Tuition per Apprentice: \$650

(Includes registration and books)

Your employer will be billed for this expense.

REFUND POLICY

Refunds for full tuition and fees will be made if class is canceled or if student withdraws before classes begin. If student registers and attends any classes, no refund will be made for that term. However, if a student drops **PRIOR** to the beginning of the second term, a refund will be issued in the amount of one-half the annual tuition (less book cost).

Wages

Beginning apprentices start at 50 percent of the journey-level wage. Upon successful completion of required class work and on-the-job hours, wages increase usually every six months, until the 85% of the journey-level rate is achieved.

COURSE DESCRIPTIONS

LEVEL ONE: Intro to the Plumbing Profession; Plumbing Safety; Tools of the Plumbing Trade; Intro to Plumbing Math; Intro to Plumbing Drawings; Plastic Pipe & Fittings; Copper Tube & Fittings; Cast Iron Pipe & Fittings; Steel Pipe & Fittings; Intro to Plumbing fixtures; Intro to DWV Systems; Intro to Water Distribution Systems

LEVEL TWO: Plumbing Math; Reading Commercial Drawings; Structural Penetrations, Insulation & Fire Stopping; Installing & Testing, DWV Piping; Installing Roof, Floors, & Area Drains; Installing & Testing Water Supply Piping; Types of Vents; Installing Fixtures & Valves; Installing Water Heaters; Basic Electricity; Fuel Gas & Fuel Oil Systems

LEVEL THREE: Applied Math; Sizing & Protecting the Water Supply System; Portable Water Supply Treatment; Types of venting; Sizing DWV & Storm Systems; Sewage Pumps & Sump Pumps; Corrosive Resistant Waste Piping; Compressed Air; Service Plumbing

LEVEL FOUR: Business Principle for Plumbers; Fundamentals of Crew Leadership; Water Pressure Booster & Recirculation Systems; Indirect & Special Waste; Hydronic & Solar Heating Systems; Codes; Private Water Supply Well Systems; Private Water Disposal Systems; Swimming Pools & Hot Tubs; Plumbing for Mobile Homes & Travel Trailer Parks; Intro to Medical Gas & Vacuum Systems