

Electrical Apprenticeship

General Journeyman (Inside) Electrician | Manufacturing Plant Electrician

4 Years

576 hours of instruction

\$1,100

course fee (textbooks additional)

Idaho + Oregon

certified curriculum

Courses in the Inside Electrician / Manufacturing Plant series supplement on-the-job training with the technical training required for trade comprehension, application, and practice. Both apprenticeships are overseen by the Ontario JATC (MA# 6008). [View the Electrical Apprenticeship details.](#)

4-Year Curriculum

Year 1

Introduces the principles of electricity, electrical theory, and the basics of electrical systems, the fundamentals needed to understand the complex NEC requirements covered throughout the curriculum. Digital multimeter principles are also addressed. Later in the year, students are introduced to and begin using the National Electrical Code.

Year 2

Focuses on the first chapters of the NEC and introduces equipment specific to alternating current. Residential and commercial wiring methods and practices are covered in depth, along with construction safety and electrical safety. Students build a greater understanding of the NEC's general wiring methods, materials, and types of protection.

Year 3

Covers additional OSHA construction safety rules and Chapter 4 of the NEC, then focuses on common industrial applications, methods, and requirements. Motors and controls are the major focus, with hazardous locations, special applications, and Solar Photovoltaic (PV) and Energy Storage Systems also introduced.

Year 4

Covers advanced Code calculations in great detail. Electrical estimating is discussed in the first part of the year, along with a review of electrical theory and motor controls.

Minimum Qualifications

Idaho Electrical Apprentice

- Be at least 16 years of age
- Submit a completed notarized application
- Pay the \$15 (non-refundable) license registration fee

dopl.idaho.gov

Oregon Electrical Apprentice

- Be employed by a member of a Training Committee (or become a member)
- Be 18 years of age
- Be a high school graduate or have a GED
- Have completed one full year of high school algebra with a 'C' or better, or one post-high school algebra course

[Oregon BOLI: Inside Electrician](#)



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Plumbing Apprenticeship

Journeyman Plumber

4 Years

576 hours of instruction

\$900

course fee (textbooks approx. \$180)

Idaho + Oregon

certified curriculum

Looking to complete your plumbing apprenticeship courses in a fun, personalized learning environment with small class sizes? TVCC is here to exceed your expectations. Students can attend class via Zoom when working out of town, and learning modules in Canvas let you complete a portion of your coursework online.

4-Year Curriculum

Year 1

Introduces plumbing principles, plumbing theory, and the basics of water distribution and DWV systems. Covers hand and power tool safety, construction math, and an introduction to blueprints and isometric drawings. Per State of Idaho standards, students complete a first aid course and CPR certification. Later in the year, students begin working with the 2017 Idaho State Plumbing Code.

Year 2

Focuses on the first chapters of the 2017 Idaho State Plumbing Code, including the 2021 IDAPA Standards. Topics include plumbing math, reading commercial plans, installing and testing DWV piping, roof, floor, and area drains, fixtures and valves, water heaters, and fuel gas and fuel oil systems. Students complete OSHA 10 Certification as required by the State of Idaho.

Year 3

Builds on the foundation with applied math, sizing and protecting water supply systems, potable water treatment, venting, sizing DWV and storm systems, sewage and sump pumps, corrosive-resistant waste piping, and service plumbing, plus construction documents and ADA guidelines. Any outstanding first aid, CPR, or OSHA 10 requirements must be completed.

Year 4

Covers the types of codes used by plumbers across the country, the 2017 Idaho State Plumbing Code, and the 2021 IDAPA Standards. Includes business principles, water pressure boosters and recirculation, indirect and special waste, hydronic and solar heating, and private waste disposal systems. Prepares students for the journeyman exam and builds leadership skills.

Minimum Qualifications

Idaho Plumbing Apprentice

- Be at least 16 years of age
- Submit a completed notarized application
- Pay the \$50 (non-refundable) license registration fee dopl.idaho.gov

Oregon Plumbing Apprentice

- Be 18 years of age
 - Be a high school graduate or have a GED
- oregon.gov/boli/apprenticeship



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Plumbing program questions? Contact the TVCC Caldwell Center at (208) 455-6820