

The Electrical trade is growing and Eastern Oregon and Western Idaho need more skilled Journeyman Electricians. As our reliance on energy sources rises, so does the need for skilled electricians. The Electrical Apprenticeship Program at Treasure Valley Community College is your key to starting a rewarding career in a field that puts you in high demand. As an electrician, you control your destiny.

The Electrical Apprenticeship Program at TVCC is a four-year program that will take you from the basics to being prepared to take the Journeyman test in Idaho or Oregon.

You will learn from industry experts in the classroom along with employment in the electrical field for on-the-job training while earning a living. The class teaches the how's and why's of electrical theory, the National Electrical Code, lighting, motors and controls, and more. Your job as an electrical apprentice will give you the hands-on training to compliment your education.

TVCC's classes meet once a week at the Ontario campus but students will have the option to Zoom in to class if they are working out of town. Apprentices will spend three hours in class each week and an additional 2 hours or more independently studying. By the end of the program, students will have a minimum of 576 of classroom (in-class and online) training and 8,000 hours of on-the-job work experience.

## Why Become an Apprentice?



**Paid Job:** Earn as you learn with a guaranteed wage increase as you develop new skills.



**Credentials:** Receive an industry-recognized and nationally-portable credential



**Jumpstart Your Career:** Ease the transition from school to career by working and learning at the same time



**Education:** Gain workplace-relevant skills in the field of your choice through on-the-job learning



**Degree Potential:** Get academic credit towards a college degree for the skills you learn while avoiding student debt



**Mentorship:** Connect with mentor(s) in your chosen industry who can help you advance your career

Be prepared to work in these areas of the electrical industry:

- Residential
- Commercial

- Industrial
- Manufacturing

## What You Will Learn To Do

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- ✓ Safety
- ✓ Tools of the trade
- ✓ Math
- ✓ Blueprint reading
- ✓ Electrical theory
- ✓ Wiring
- ✓ Motors
- ✓ Controls
- ✓ Lighting
- ✓ Circuit breakers
- ✓ Fuses
- ✓ Contractors
- ✓ Relays
- ✓ Grounding
- ✓ Conductors
- ✓ Conduit
- ✓ National Electric Code requirements

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**YEAR 1:** Introduces apprentices to the principles associated with electricity, electrical theory, and the basics of electrical systems. These basic fundamentals are necessary to understand the complex *NEC* requirements covered throughout the curriculum. Digital multimeter principles will also be addressed. In the latter part of this level students will be introduced to, and begin utilizing, the *National Electrical Code*.

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**YEAR 2:** Focuses on the first few chapters of the *National Electrical Code*. Some equipment specific to alternating current will be introduced. Residential and commercial wiring methods and practices will also be covered in depth in this level. Students will develop a further knowledge of construction safety, electrical safety, and the *NEC*. As they study rules in the Code, they'll develop a greater understanding of the purpose of the *NEC*'s general wiring methods, materials, and different types of protection along with gaining a deeper understanding of residential and commercial wiring systems.

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**YEAR 3:** In this level, students will continue building their foundation of knowledge about construction safety, electrical safety, and the *National Electrical Code*. Additional OSHA construction safety rules and chapters of the *NEC* are covered, then centers on common industrial applications, methods, and requirements. While motors and controls are the major focus area, hazardous locations, special applications, solar photovoltaic systems, and power quality are also introduced.

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**YEAR 4:** This final level of the program covers advanced Code calculations in great detail. Electrical estimating is discussed in the first part of the level as well as a review of electrical theory and motor controls. Additional OSHA construction safety rules, basic business management, and interpersonal skills will also be covered as well. Students will develop a further knowledge of construction safety, electrical safety, and the *NEC* in preparation for their journeyman exam. They'll also gain an understanding of basic leadership principals necessary to excel on the job and be introduced to some fire alarm system basics.

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## Degrees and Certificates

Students will receive a **Certificate of Completion** for each year completed. Completion is dependent upon a passing grade and a minimum of 144 hours of classroom and online learning. Students will receive 12 College Credits per year.

## Costs

- ⇒ Course Fee \$1100 (2022-23 Academic Year)
  - ⇒ Book costs will vary by year. Most books are purchased through CBWCL
- Class costs and fees are subject to change without notice.*

## Professions

- ★ Electrician
- ★ Electrical Journeyman
- ★ Residential Electrician
- ★ Commercial Electrician
- ★ Industrial Electrician
- ★ Electrical Contractor
- ★ Construction

## Requirements

### **Oregon Minimum Qualifications**

To qualify for registration as an Electrical Apprentice, an applicant must:

- Be employed by a member of a Training Committee (or become a member).
- Be 18 years of age.
- Applicant shall be a high school graduate or have a GED Certificate of Equivalency.
- Must have completed one full year of high school algebra with a passing grade of 'C' or better or one post high school algebra course

*More Information can be found here: <https://www.oregon.gov/boli/apprenticeship>*

### **Idaho Minimum Qualifications**

To qualify for registration as an Electrical Apprentice, an applicant must:

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

*More Information can be found here: <https://www.dbs.idaho.gov>*

## Locations

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### **Ontario Campus - Albertson Building**

650 College Blvd., Ontario, OR 97914

## Program Contact

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### **Center for Business, Workforce, and Community Learning (CBWCL) at TVCC**

Jimsie Crouch: (541) 881-5755

Andrea Testi: (541) 881-5761

Email: [cbwcl@tvcc.cc](mailto:cbwcl@tvcc.cc)

## JATC Contact

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### **Ontario JATC MA#6008** – *Joint Apprenticeship Training Committee*

#### **Committee Coordinator**

Po Box 427

Fruitland, ID 83619

(208) 452-4976

[tatc6008@gmail.com](mailto:tatc6008@gmail.com)

Physical Address:

4607 Berts Lane

Fruitland ID 83619

Standards of Apprenticeship - General Journey Electrician

[https://www.oregon.gov/boli/apprenticeship/Standards/6008\\_0159.0.pdf](https://www.oregon.gov/boli/apprenticeship/Standards/6008_0159.0.pdf)

## Ready to get started?

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**APPLY NOW!** Visit <https://www.tvcc.cc/admissions/apply.cfm>

After you have applied for admissions or you are a **current** apprentice download the Registration Packet here:

[https://resources.tvcc.cc/file\\_manager/download.cfm?file=7820](https://resources.tvcc.cc/file_manager/download.cfm?file=7820)