

# LIMITED LICENSE ELECTRICIAN APPRENTICESHIP TECHNOLOGIES, CAREER PATHWAY CERTIFICATE

*(Limited Entry Program-Journeyman's card required)*

Registered Apprenticeship is a method of career and technical education recognized by the Apprenticeship and Training Division of the Oregon Bureau of Labor and Industries (BOLI). It combines on-the-job training and trade-related instruction taken in conjunction with each other.

Apprenticeship courses are approved for BOLI-registered apprentices or journey-level workers and are not available to the general public.

CCC's apprenticeship programs offer Statewide Associate of Applied Science degrees, Certificates of Completion and Career Pathway Certificates of Completion for journeymen in the areas of Inside Electrician (IE), Limited Energy (LE), Protective Signaling (LE), Limited Maintenance Electrician (LME), Lineman (UL), Meterman (UM), Wireman (UW), Line Estimator (UE), Painter (PT), Plumber (PB), and Machinist (MA).

A journeyman has the opportunity to receive a Career Pathway Certificate of Completion, Certificate of Completion and/or Associate of Applied Science degree in their designated field of study upon the completion of their on-the-job training (OJT), related training, journey level card/certificate and the required Related Instruction courses and possible elective courses, depending on the trade.

Electricians and plumbers require state licensure. Related training courses meet industry standards and are offered through a partnership between the Oregon State Apprenticeship & Training Council and the local Joint Apprenticeship & Training Committee.

If you are interested in becoming registered in an Oregon State Apprenticeship program, please contact the Oregon State Bureau of Labor and Industries Apprenticeship and Training Division at 971-673-0761 or [www.boli.state.or.us](http://www.boli.state.or.us) for program and entrance requirements.

For more information on CCC's apprenticeship certificates and degrees, visit the [Apprenticeship webpage](#), or contact the Apprenticeship Coordinator at 503-594-3031 or Apprenticeship Advisor at 503-594-0959, [apprenticeship@clackamas.edu](mailto:apprenticeship@clackamas.edu).

## Oregon Tech Transfer Courses

The programs provide statewide transfer opportunities into either a Bachelor of Science degree in Applied Technology and Management or a Bachelor of Science degree in Operations Management at the Oregon Institute of Technology.

## Outcomes

### Program Outcomes

Upon successful completion of this program, students should be able to:

- complete 4000-8000 hours State of Oregon-approved on-the-job-training. (OJT);
- complete all required related-training with a grade of C or better;
- solve mathematical formulas and equations of theory;
- describe and apply basic theory of electrical sources;
- demonstrate safe working practices in accordance with state and federal regulations;
- calculate voltage drop;
- solve electrical equations using trade-specific mathematical formulas;
- use test equipment to make electrical measurements;
- appropriate use and care of trade-specific equipment;
- operate PLC's according to trade-specific applications and methodology;
- describe various troubleshooting techniques of trade-specific equipment;
- draw and interpret blueprints and schematics;
- interpret NEC and Oregon Specialty Codes;
- complete & pass timed practice exams;
- demonstrate knowledge of industry terminology;
- use the NEC articles and tables to perform various calculations;
- utilize the Oregon Administrative Rules (OARs) in relation to the NEC and Oregon Specialty Codes (OSC);
- complete the NEC code preparation exams with a 75% and higher.

## Careers

Limited-Entry Program-Journeyman's Card Required. This degree does not guarantee licensure.

4000 Hour BOLI-ATD Trades:

- Limited Energy Technician License B<sup>1</sup>
- Limited Maintenance Electrician
- Limited Renewable Energy Technician
- Limited Residential Electrician

6000 Hours BOLI-ATD Trades:

- Limited Energy Technician License A<sup>1</sup>
- Sign Maker/Fabricator

<sup>1</sup> Programs offered at Clackamas Community College through partnership with local JATC or EIC.