

APPRENTICESHIP TECHNOLOGIES

Electrician Apprenticeship Technologies Associate of Applied Science

PROGRAM MISSION

The Electronic Apprenticeship Technology program prepares students for advanced-level jobs and journeyman careers.

PROGRAM DESCRIPTION

Oregon Bureau of Labor and Industries – Apprenticeship Training Division (BOLI-ATD) and local Joint Apprenticeship Training Committee (JATC) trade-specific standards of apprenticeship control the training. This program is restricted to BOLI-ATD registered apprentices. Therefore, this is a closed enrollment program and not available to the general student population.

Apprenticeship training is an earn-while-you learn program. The apprentice is an employee and earns a wage while receiving on-the-job training and attending related training classes.

An approved training agent selects apprentices through a competitive bid process from current employees. The apprentice connects to the JATC after selection through the indenture (registration) process. Local JATCs representing labor and management work with the College to implement the apprenticeship programs. Every six months the JATC reviews and evaluates each apprentice's progress.

The apprenticeship model provides statewide transfer opportunities, ladder-type Certificates of Completion, Associate of Applied Science degrees and an optional transfer path into a Bachelor of Applied Science degree in Operations Management at Oregon Institute of Technology.

The BOLI-ATD website www.oregon.gov/boli/atd provides more information about apprenticeship and statewide opportunities.

Umpqua Community College offers two 8,000-hour BOLI-ATD registered apprenticeships in partnership with Roseburg Industrial Electrical JATC, Area IV (Roseburg) Electrical JATC and BOLI-ATD.

- Inside Electrician
- Manufacturing Plant Electrician

PROGRAM OUTCOMES

This apprenticeship program provides specialized training for apprentices who are registered with BOLI-ATD as Manufacturing Plant Electrician or Inside Electrical Electrician. The Oregon State Standard for each trade aligns the course of study.

All required courses must be completed with at least a "C" grade. Successful apprentice students earn a trade-specific Oregon State License Journeyman Card upon successful completion of the Building Codes Division limited maintenance electrician journeyman test.

Students who successfully complete the Electrician program will:

1. Demonstrate accurate measurements, calculations and use of equipment

2. Demonstrate knowledge of electrical fundamentals and safety
3. Complete Electrical Code and Exam Prep
4. Earn a trade-specific Oregon State License Journeyman Card upon successful completion of the Building Codes Division electrical journeyman test

CAREER CONSIDERATIONS

The Electrical Apprenticeship Technology program prepares students for advanced-level jobs and journeyman careers in the following areas:

- Licensed Journeyman Inside Electrician
- Licensed Manufacturing Plant Electrician

Electrical Apprenticeship Technology graduate may continue education at Oregon Institute of Technology for obtaining an Operations Management Bachelor of Science degree or Technology & Management Bachelor of Applied Science.

PROGRAM COURSE REQUIREMENTS

Year One

APR 140	Welding for Apprentices * MPE only	1
APR 151	Basic Electronics and Electricity	4
APR 153	Electrical Applications and Techniques	3
APR 155	Electrical Best Practices	2
APR 157	Introduction to the NEC	2
APR 159	Electrical Blueprint Reading	2

Year Two

APR 160	Residential Wiring *Inside Electrician Only	3
APR 163	Commercial Wiring	3
APR 165	AC Electronics and Electricity	4
APR 167	Electric Motors and Transformers	3
APR 169	Electrical Code Study 2	2

Year Three

APR 251	Electrical Sensors and Controls	3
APR 253	Electrical Code Study 3	2
APR 255	Motor Controls 1	2
APR 257	High Voltage Applications	2
APR 259	Solid State and Digital Applications	4
APR 261	Electrical Code Study 4	2

Year Four

APR 263	Communications Alarms and Controls	2
APR 265	Motor Controls 2	2
APR 267	Advance Code Study	3

APPRENTICESHIP TECHNOLOGIES, continued

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Additional Related Instruction – 37 credits

HUMAN RELATIONS COURSE		3
PSY 101	Psychology of Human Relations	3
SDP 113	Human Relations/Supervisors	3
SP 105	Listening	3
SP 218	Interpersonal Communication	3
SP 219	Small Group Discussion	3
WR 115 or higher		4

Approved Electives –

Choose enough electives to reach a minimum of 48 overall degree credits

APR 112	Machine Shop Practices 2	3
APR 113	Machine Shop Practices 3	3
APR 122	Hydraulics 2	3
APR 123	Hydraulics 3	3
APR 142	Advanced Welding for Apprentices	1
APR 151	Basic Electronics & Electricity	4
APR 153	Electrical Applications & Techniques	3
APR 165	AC Electronics & Electricity	4
APR 259	Solid State and Digital Applications	3
BA 101	Introduction to Business	4
CIS 120	Introduction to Computer Information Systems	4
CIS 125D	Microcomputer Applications - Database	4
CIS 125S	Computer Applications Spreadsheets	3
HPE 295	Wellness & Health Assessment	3
SDP 109	Elements of Supervision	3
SDP 113	Human Relations for Supervisors	3

Total Credits 92

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- JATC Approval

