

Apprenticeship Programs

go.chemeketa.edu/apprenticeship

Apprenticeship training as a method of vocational education is recognized by the Apprenticeship and Training Division (ATD) of the Oregon Bureau of Labor and Industries (BOLI). It combines full-time, on-the-job learning (OJL) with committee approved contractors and trade related instruction taken in conjunction with each other.

The instruction at Chemeketa is for those already working in selected trades as apprentices, or for journey-level men and women who wish to upgrade their skills or knowledge. Each program requires four years of OJL and related instruction. HVAC/R technicians, plumbers, and electricians require state licensure at the conclusion of their training.

Chemeketa's Apprenticeship programs offer a certificate of completion and an associate of applied science degree in Construction Trades, General Apprenticeship with specializations in Heating, Ventilation, Air-Conditioning, and Refrigeration (HVAC/R); Plumbing; and Sheet Metal, and a certificate of completion and an associate of applied science degree in Electrician Technologies Apprenticeship for Inside Wire Electricians. These programs provide statewide transfer opportunities and an optional transfer path into a bachelor of science degree in Operations Management at the Oregon Institute of Technology (OIT). The related training courses are based on ATD and local Joint Apprenticeship Training Committee-approved related training courses developed to meet industry standards. They are approved for BOLI-registered apprentices and are not available to the general student population.

If you are interested in becoming registered in an Oregon State Apprenticeship program, please contact the Apprenticeship and Training Division at 971.673.0761 or www.boli.state.or.us for program and entrance requirements. For more information on Chemeketa's apprenticeship certificates and degrees, please call 503.399.5255 or go to go.chemeketa.edu/apprenticeship or www.oregonapprenticeship.org.

All students in the HVAC/R, Sheet Metal, or Inside Wire Electrician apprenticeship programs must complete 8000 hours of State of Oregon-approved OJL; the plumber program requires 7700 hours of OJL. In addition, students must successfully complete skill sets in their field of specialization.

Students Transferring Into the Apprenticeship Programs

Transcripts from students interested in transferring to Chemeketa for apprenticeship program completion or for

degree and certificate completion will be evaluated on an individual basis. Learner outcomes will determine the courses and number of credits accepted. The total number of credits accepted may or may not equal the number of credits approved for Chemeketa students.

Students completing the Construction Trades General Apprenticeship certificate, HVAC/R Specialization should be able to:

- Repair, install, and maintain a variety of building construction projects using trade-specific tools and techniques in compliance with building codes and Occupational Safety and Health Administration (OSHA) regulations
- Complete three general education courses: one each in communications, computation and human relations

Students completing the Construction Trades General Apprenticeship certificate, Plumbers Specialization should be able to:

- Repair, install, and maintain a variety of building construction projects using trade-specific tools and techniques in compliance with building codes and OSHA regulations
- Complete three general education courses: one each in communications, computation and human relations

Students completing the Construction Trades General Apprenticeship certificate, Sheet Metal Specialization should be able to:

- Repair, install, and maintain a variety of building construction projects using trade-specific tools and techniques in compliance with building codes and OSHA regulations
- Complete three general education courses: one each in communications, computation and human relations

Students completing the Construction Trades General Apprenticeship AAS, HVAC/R Specialization should be able to:

- Repair, install, and maintain a variety of building construction projects using trade-specific tools and techniques in compliance with building codes and OSHA regulations
- Complete three general education courses



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Students completing the Construction Trades General Apprenticeship AAS, Plumbers Specialization should be able to:

- Repair, install, and maintain a variety of building construction projects using trade-specific tools and techniques in compliance with building codes and OSHA regulations
- Complete general education courses

Students completing the Construction Trades General Apprenticeship AAS, Sheet Metal Specialization should be able to:

- Repair, install, and maintain a variety of building construction projects using trade-specific tools and techniques in compliance with building codes and OSHA regulations
- Complete general education courses

Students completing the Electrician Apprenticeship Technologies certificate, Inside Wire Electrician specialization should be able to:

- Apply theory to electrical wiring
- Repair and install electrical wire devices according to licensure regulations to meet National Electrical Code (NEC) and Oregon Electrical Specialty Code (OESC) standards for Inside Electrician
- Complete three general education courses: one each in communications, computation and human relations

Students completing the Electrician Apprenticeship Technologies AAS, Inside Wire Electrician specialization should be able to:

- Apply theory to electrical wiring
- Repair and install electrical wire devices according to licensure regulations to meet NEC and OESC standards for Inside Electrician
- Complete three general education courses

Getting started

The requirements for each apprenticeship certificate and degree program are listed below.

HVAC/R Apprenticeship entry requirements:

- Minimum of 18 years old
- High School Diploma or GED
- One year of high school algebra with grade "C" or better or
- Completion of MTH060 or MTH070 at Chemeketa

Construction Trades General Apprenticeship AAS, HVAC/R Specialization requirements:

- Journey-level status in the HVAC/R industry
- Complete a minimum of 30 credits at Chemeketa
- Complete the general education requirements for an AAS degree
- Compile a minimum of 90 approved credits; 22 credits may be awarded for proof of journey-level status

Plumber Apprenticeship entry requirements:

- Minimum of 18 years old
- High School Diploma or GED
- One year of high school algebra with grade "C" or better or
- Completion of MTH060 or MTH070 at Chemeketa

Construction Trades General Apprenticeship AAS, Plumber Specialization requirements:

- Journey-level status in the plumbing industry
- Complete a minimum of 30 credits at Chemeketa
- Complete the general education requirements for an AAS degree
- Compile a minimum of 90 approved credits; 22 credits may be awarded for proof of journey-level status

Sheet Metal Apprenticeship entry requirements:

- Minimum of 18 years old
- High School Diploma or GED
- One year of high school algebra with grade "C" or better or
- Completion of MTH060 and MTH070 at Chemeketa

Construction Trades General Apprenticeship AAS, Sheet Metal Specialization requirements:

- Journey-level status in the sheet metal industry
- Complete a minimum of 30 credits at Chemeketa
- Complete the general education requirements for an AAS degree
- Compile a minimum of 90 approved credits; 22 credits may be awarded for proof of journey-level status

Electrician Apprenticeship entry requirements:

- Minimum of 18 years old
- High School Diploma or GED
- One year of high school algebra with grade "C" or better or
- Completion of MTH060 and MTH070 at Chemeketa or
- Test placement into MTH070 or higher

Electrician Apprenticeship Technologies AAS, Inside Wire Electrician Specialization requirements:

- Journey-level status in the electrical industry
- Complete a minimum of 30 credits at Chemeketa
- Complete the general education requirements for an AAS degree
- Compile a minimum of 90 approved credits; 22 credits may be awarded for proof of journey-level status

If you have questions about the program requirements, contact the Apprenticeship office at 503.399.5255 or e-mail marilyn.reed@chemeketa.edu.

Construction Trades, General Apprenticeship AAS

Construction Trades, General Apprenticeship, Certificate of Completion

You may earn a certificate of completion by successfully completing the Construction Trades, General Apprenticeship general education requirements of 12 credit hours, plus additional credits in one area of specialization listed below.

Construction Trades, General Apprenticeship general education requirements (12 credit hours)

| Course | Title | Credit Hours |
|--------|--|--------------|
| MTH095 | Intermediate Algebra+ (or higher) | 4 |
| PSY101 | Psychology of Human Relations+ (or higher) | 4 |
| WR115 | Introduction to Composition+ (or higher) | 4 |

+Meets related instruction requirement, see page 50. For subject areas, see page 56.

Plus: Choose one area of specialization

HVAC/R Specialization

In addition to tuition, estimated costs for students who complete the entire four-year listed below are program fees, \$480; universal fee, \$1,008. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn a certificate of completion by successfully completing the required 72 credit hours (12 hours of general education credits listed above plus 60 hours of HVAC/R trade-related coursework listed below).

| Course | Title | Credit Hours |
|---------|---|--------------|
| APR155A | HVAC/R Apprenticeship Fundamentals | 5 |
| APR155B | HVAC/R Apprenticeship Soldering and Brazing ... | 5 |
| APR155C | HVAC/R Apprenticeship Introduction to Code | 5 |
| APR155D | HVAC/R Apprenticeship Trade Math..... | 5 |
| APR155E | HVAC/R Apprenticeship Introduction to Refrigeration | 5 |
| APR155F | HVAC/R Apprenticeship Electricity and Magnetism | 5 |
| APR255G | HVAC/R Apprenticeship Fuels..... | 5 |
| APR255H | HVAC/R Apprenticeship Residential Air Distribution | 5 |
| APR255I | HVAC/R Apprenticeship Welding | 5 |
| APR255J | HVAC/R Apprenticeship Refrigeration Fundamentals..... | 5 |
| APR255K | HVAC/R Apprenticeship Troubleshooting..... | 5 |
| APR255L | HVAC/R Apprenticeship Equipment Room and Layout..... | 5 |

Plumbing Specialization

In addition to tuition, estimated costs for students who complete the entire four-year program listed below are program fees, \$448; universal fee, \$896. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn a certificate of completion by successfully completing the required 64 credit hours (12 hours of general education credits listed above plus 52 hours of plumbing trade-related coursework listed below).

| Course | Title | Credit Hours |
|---------|--|--------------|
| APR158A | Plumber Apprenticeship Fundamentals..... | 5 |
| APR158B | Plumber Apprenticeship Math and Print Reading | 5 |
| APR158C | Plumber Apprenticeship Pipe Sizing | 3 |
| APR158D | Plumber Apprenticeship Basic Installation | 5 |
| APR158E | Plumber Apprenticeship Occupancy..... | 5 |
| APR158F | Plumber Apprenticeship Advanced Wastewater Systems | 3 |
| APR258G | Plumber Apprenticeship Residential Installation... | 5 |
| APR258H | Plumber Apprenticeship Commercial Installation . | 5 |
| APR258I | Plumber Apprenticeship Code..... | 3 |
| APR258J | Plumber Apprenticeship Industrial Installation..... | 5 |
| APR258K | Plumber Apprenticeship Basic Wastewater Systems | 5 |
| APR258L | Plumber Apprenticeship Code and Test Preparation..... | 3 |

Sheet Metal Specialization

In addition to tuition, estimated costs for students who complete the entire four-year program listed below are program fees, \$480; universal fee, \$994. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn a certificate of completion by successfully completing the required 71 credit hours (12 hours of general education credits listed above plus 59 hours of sheet metal trade-related coursework listed below).

| Course | Title | Credit Hours |
|---------|---|--------------|
| APR166A | Sheet Metal Apprenticeship Fundamentals..... | 5 |
| APR166B | Sheet Metal Apprenticeship Fundamentals of Drawings | 5 |
| APR166C | Sheet Metal Apprenticeship Fundamentals of Layout | 5 |
| APR166D | Sheet Metal Apprenticeship Basic Installation | 5 |
| APR166E | Sheet Metal Apprenticeship Architectural Systems | 5 |
| APR166W | Welding Processes for Apprenticeship | 4 |
| APR266F | Sheet Metal Apprenticeship Applied Math..... | 5 |
| APR266G | Sheet Metal Apprenticeship Triangulation and Fiberglass | 5 |
| APR266H | Sheet Metal Apprenticeship Calculator Layout..... | 5 |
| APR266I | Sheet Metal Apprenticeship Radial Line Development..... | 5 |
| APR266J | Sheet Metal Apprenticeship Duct Sizing..... | 5 |
| APR266K | Sheet Metal Apprenticeship Job Site Management..... | 5 |

Construction Trades, General Apprenticeship, Associate of Applied Science Degree

You may earn an associate of applied science degree by successfully completing the Construction Trades, General Apprenticeship general education requirements of 23 credit hours, plus additional credits in one area of specialization listed below, and 22 hours for proof of journey-level status.

Construction Trades, General Apprenticeship general education requirements (23 credit hours)

| Course | Title | Credit Hours |
|---------|--|--------------|
| CIS101 | Introduction to Microcomputer Applications | 3 |
| COMM111 | Fundamentals of Public Speaking | 4 |
| EC202 | Introduction to Macroeconomics | 4 |
| MTH095 | Intermediate Algebra+ (or higher) | 4 |
| PSY101 | Psychology of Human Relations+ (or higher) | 4 |
| WR121 | The College Essay+ (or higher) | 4 |

+Meets related instruction requirement, see page 50. For subject areas, see page 56.

Plus: Choose one area of specialization

HVAC/R Specialization

In addition to tuition, estimated costs for students who complete the entire four-year program listed below are program fees, \$480; universal fee, \$1,162. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate of applied science degree by successfully completing the required 105 credit hours (23 hours of general education credits listed above and 60 hours of HVAC/R coursework listed below, plus 22 hours for proof of journey-level status).

| Course | Title | Credit Hours |
|---------------|---|--------------|
| Term 1 | | |
| APR155A | HVAC/R Apprenticeship Fundamentals | 5 |
| APR155B | HVAC/R Apprenticeship Soldering and Brazing ... | 5 |
| APR155C | HVAC/R Apprenticeship Introduction to Code | 5 |
| APR155D | HVAC/R Apprenticeship Trade Math..... | 5 |
| APR155E | HVAC/R Apprenticeship Introduction to Refrigeration | 5 |
| APR155F | HVAC/R Apprenticeship Electricity and Magnetism | 5 |
| APR255G | HVAC/R Apprenticeship Fuels..... | 5 |
| APR255H | HVAC/R Apprenticeship Residential Air Distribution | 5 |
| APR255I | HVAC/R Apprenticeship Welding | 5 |
| APR255J | HVAC/R Apprenticeship Refrigeration Fundamentals..... | 5 |
| APR255K | HVAC/R Apprenticeship Troubleshooting..... | 5 |
| APR255L | HVAC/R Apprenticeship Equipment Room and Layout..... | 5 |

Plumbing Specialization

In addition to tuition, estimated costs for students who complete the entire four-year program listed below are program fees, \$448; universal fee, \$1,050. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate of applied science degree by successfully completing the required 97 credit hours (23 hours of general education credits listed above and 52 hours of plumbing coursework listed below, plus 22 hours for proof of journey-level status).

| Course | Title | Credit Hours |
|---------|--|--------------|
| APR158A | Plumber Apprenticeship Fundamentals..... | 5 |
| APR158B | Plumber Apprenticeship Math and Print Reading | 5 |
| APR158C | Plumber Apprenticeship Pipe Sizing | 3 |
| APR158D | Plumber Apprenticeship Basic Installation | 5 |
| APR158E | Plumber Apprenticeship Occupancy..... | 5 |
| APR158F | Plumber Apprenticeship Advanced Wastewater Systems | 3 |
| APR258G | Plumber Apprenticeship Residential Installation... | 5 |
| APR258H | Plumber Apprenticeship Commercial Installation . | 5 |
| APR258I | Plumber Apprenticeship Code..... | 3 |
| APR258J | Plumber Apprenticeship Industrial Installation..... | 5 |
| APR258K | Plumber Apprenticeship Basic Wastewater Systems | 5 |
| APR258L | Plumber Apprenticeship Code and Test Preparation..... | 3 |

Sheet Metal Specialization

In addition to tuition, estimated costs for students who complete the entire four-year program listed below are program fees, \$480; universal fee, \$1,148. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate of applied science degree by successfully completing the required 104 credit hours (23 hours of general education credits listed above and 59 hours of sheet metal coursework listed below, plus 22 hours for proof of journey-level status).

| Course | Title | Credit Hours |
|---------|---|--------------|
| APR166A | Sheet Metal Apprenticeship Fundamentals..... | 5 |
| APR166B | Sheet Metal Apprenticeship Fundamentals of Drawings | 5 |
| APR166C | Sheet Metal Apprenticeship Fundamentals of Layout | 5 |
| APR166D | Sheet Metal Apprenticeship Basic Installation | 5 |
| APR166E | Sheet Metal Apprenticeship Architectural Systems | 5 |
| APR166W | Welding Processes for Apprenticeship | 4 |
| APR266F | Sheet Metal Apprenticeship Applied Math..... | 5 |
| APR266G | Sheet Metal Apprenticeship Triangulation and Fiberglass | 5 |
| APR266H | Sheet Metal Apprenticeship Calculator Layout..... | 5 |
| APR266I | Sheet Metal Apprenticeship Radial Line Development..... | 5 |
| APR266J | Sheet Metal Apprenticeship Duct Sizing..... | 5 |
| APR266K | Sheet Metal Apprenticeship Job Site Management..... | 5 |

Electrician Apprenticeship Technologies AAS

Electrician Apprenticeship Technologies Certificate of Completion

In addition to tuition, estimated costs for students who complete the entire four-year program listed below are program fees, \$448; universal fee, \$896. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn a certificate of completion by successfully completing the required 64 credit hours.

General Education requirements (12 credit hours)

| Course | Title | Credit Hours |
|--------|--|--------------|
| MTH095 | Intermediate Algebra+ (or higher) | 4 |
| PSY101 | Psychology of Human Relations+ (or higher) | 4 |
| WR115 | Introduction to Composition+ (or higher) | 4 |

Apprenticeship Related Training-Electrical (52 credit hours)

| Course | Title | Credit Hours |
|---------|--|--------------|
| APR153A | Electrician Apprenticeship Fundamentals | 5 |
| APR153B | Electrician Apprenticeship AC/DC Circuits | 5 |
| APR153C | Electrician Apprenticeship Measurements | 3 |
| APR153D | Electrician Apprenticeship Theory | 5 |
| APR153E | Electrician Apprenticeship Wiring and Print Reading | 5 |
| APR153F | Electrician Apprenticeship Residential Installation | 3 |
| APR253G | Electrician Apprenticeship Safety and Code | 5 |
| APR253H | Electrician Apprenticeship Motor and Controls | 5 |
| APR253I | Electrician Apprenticeship Fiber Optics | 3 |
| APR253J | Electrician Apprenticeship Math/Test Equipment . | 5 |
| APR253K | Electrician Apprenticeship Voltage | 5 |
| APR253L | Electrician Apprenticeship Code and Exam Prep . | 3 |

+Meets related instruction requirement, see page 50. For subject areas, see page 56.

Electrician Apprenticeship Technologies Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the entire four-year program listed below are program fees, \$448; universal fee, \$1,050. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate of applied science degree by successfully completing the required 97 credit hours (75 hours of coursework listed below, plus 22 hours for proof of journey-level status).

General Education requirements (23 credit hours)

| Course | Title | Credit Hours |
|---------|--|--------------|
| CIS101 | Introduction to Microcomputer Applications | 3 |
| COMM111 | Fundamentals of Public Speaking | 4 |
| EC202 | Introduction to Macroeconomics | 4 |
| MTH095 | Intermediate Algebra+ (or higher) | 4 |
| PSY101 | Psychology of Human Relations+ (or higher) | 4 |
| WR121 | The College Essay+ (or higher) | 4 |

Apprenticeship Related Training-Electrical (52 credit hours)

| Course | Title | Credit Hours |
|---------|--|--------------|
| APR153A | Electrician Apprenticeship Fundamentals | 5 |
| APR153B | Electrician Apprenticeship AC/DC Circuits | 5 |
| APR153C | Electrician Apprenticeship Measurements | 3 |
| APR153D | Electrician Apprenticeship Theory | 5 |
| APR153E | Electrician Apprenticeship Wiring and Print Reading | 5 |
| APR153F | Electrician Apprenticeship Residential Installation | 3 |
| APR253G | Electrician Apprenticeship Safety and Code | 5 |
| APR153H | Electrician Apprenticeship Motor and Controls | 5 |
| APR253I | Electrician Apprenticeship Fiber Optics | 3 |
| APR253J | Electrician Apprenticeship Math/Test Equipment . | 5 |
| APR253K | Electrician Apprenticeship Voltage | 5 |
| APR253L | Electrician Apprenticeship Code and Exam Prep . | 3 |

+Meets related instruction requirement, see page 50. For subject areas, see page 56.