

INDUSTRIAL MECHANICS AND MAINTENANCE TECHNOLOGY APPRENTICESHIP, AAS

AAS.MACHINIST

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. The program is restricted to enrollment by Bureau of Labor and Industries registered apprentices and not available to the general student population.

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.

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

Related Instruction Outcomes

Computation

- 1 course - MTH-080 Technical Mathematics II
- Use appropriate mathematics to solve problems

Communication

- 3-4 credits - See [Related Instruction](#) for course list
- Read actively, think critically, and write purposefully and capably for professional audiences

Human Relations

- 3-4 credits - See [Related Instruction](#) for course list
- Engage in ethical communication processes that accomplish goals

Physical Education/Health/Safety/First Aid

- 1-3 credits - See [Related Instruction](#) for course list
- Use effective life skills to improve and maintain mental and physical wellbeing

Program Outcomes

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

- complete a minimum of 6000-8000 hours State of Oregon approved on-the-job training (OJT);
- demonstrate the functions of trade-specific industrial systems;
- define lubrication processes with trade-specific industrial materials and equipment;
- identify mechanical and/or electrical industrial systems;

- demonstrate the proper care, use and storage of hand and power tools;
- develop machine shops skills in troubleshooting;
- read and interpret trade-specific industrial blueprints;
- analyze the properties of material and how they apply to trade-specific fabricating applications;
- fabricate industrial materials in appropriate trade-specific applications;
- calculate elementary algebraic equations and formulas;
- apply appropriate formulas to mathematical situations.

Careers

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

6000 Hours BOLI-ATD Trades:

- Machinist¹
- Programmable Logic Controller
- Industrial Mobile Mechanic

¹ Programs offered at Clackamas Community College through partnership with local JATC.