

Industrial Welding Technology: Welder's Helper

Career Pathways Certificate

Holland code family: Doers

www.roguecc.edu/Counseling/HollandCodes/test

About the Program

The Welder's Helper Career Pathways two-term certificate program is designed to recognize students' accomplishments in welding and prepare them for entry-level work experiences in the welding industry. Students will be prepared with mathematics skills and the understanding of skills necessary to be valuable employees in the industrial welding trades. Credit from this certificate will transfer to the one-year Certificate of Completion and/or the Associate of Applied Science degree in Industrial Welding Technology.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for industrial welding programs are:

- Show a serious commitment to a culture of safety in all college and work environments.
- Produce industry quality weldments on carbon steel plate in various joint and groove configurations.
- Processes include oxy fuel cutting, plasma arc cutting, SMAW, GMAW and FCAW.
- Produce industry-quality welds using GTAW, GMAW and FCAW on stainless steel and aluminum plate.
- Produce industry-quality welds on various diameters of carbon steel pipe in the 5g and 6g positions using SMAW electrodes E6010 and E7018.
- Develop a logical sequence of steps to foresee, troubleshoot, and resolve mechanical and process issues that may arise in the workplace.
- Interpret and create mechanical blueprints to industry standards.
- Layout and fabricate industry-quality fabrication projects using shearing and forming equipment.
- Demonstrate a commitment to the professional standards of the industry.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over three years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. High school College Now credit will be accepted in accordance with current agreement. Verified industry experience may be substituted for some coursework in accordance with college policy and the department chair's approval.

Credits earned in the successful completion of Career Pathways Certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor and review the roadmap at www.roguecc.edu/Programs/CareerPathways.

Completion Requirements

Students must complete all courses in this program with a grade of "C" or better to receive their pathways certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade.

**Industrial Welding Technology: Welder's Helper
Career Pathways Certificate (25-28 credits)**

- Entry-level work experiences in the welding industry ¹

**Industrial Welding Technology
Certificate of Completion (42-43 credits)**

- Welding, soldering, and brazing machine setters, operators, and tenders so you can set up, operate, or tend welding, soldering, or brazing machines or robots that weld, braze, solder, or heat treat metal products, components, or assemblies. Include workers who operate laser cutters or laser-beam machines ¹



**Industrial Welding Technology
Associate of Applied Science (AAS) (92-97 credits)**

- Welder/fabricator, pipe welder, equipment repairer, cutter, solder, and brazier ¹

**Management
SOU, Bachelor of Applied Science articulated with RCC's AAS degrees**

- Supervisor/manager ¹
- Business owner ¹

¹ For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at www.roguecc.edu/CareerPathways/

Prerequisites

Course No.	Course Title	Credits
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8

Total Prerequisite Credits 0-12

Required Courses

Course No.	Course Title	Credits
MEC102	Basic Hand Tools or demonstrated proficiency	0-3
MET101	Mechanical Drafting	3
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
WLD111	Technology of Industrial Welding I	6
WLD112	Technology of Industrial Welding II	6
WLD113	Technology of Industrial Welding III	6

TOTAL PROGRAM CREDITS 25-28

For more information contact the Industrial Welding Department:

Grants Pass or Medford	541-245-7809
Toll free in Oregon	.800-411-6508, Ext. 7809
email	welding@roguecc.edu
Web address	www.roguecc.edu/welding
TTY	Oregon Telecom Relay Service, 711

This advising guide is for advising purposes only. Please see current college catalog for additional information on specific college policies and graduation requirements.

RCC is an open institution and does not discriminate. For RCC's non-discrimination policy and a full list of regulatory specific contact persons visit the following webpage: www.roguecc.edu/nondiscrimination.

