

Industrial Welding Technology

Holland code family: Doers

About the Program

Upon completion of this three-term certificate program, students will be qualified to test for certification to the American Welding Society (AWS) D1.1-06 Structural Steel and the AWS D1.3-08 Sheet Steel Welding Codes. Additionally, students will have a good foundation in structural steel fitting/layout, the basics of pipefitting, and the basics of sheet metal pattern development. Students will also be prepared with mathematics and communication skills, and be knowledgeable about the human relations necessary to become valuable employees in the industrial welding trades.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. Visit <http://www.roguecc.edu/GainfulEmployment/> for more information.

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 by the results of their placement assessment. 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. 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.

Graduation Requirements

Students must complete all courses in this program with a grade of "C" or better to receive their 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.

What skills will you learn?

Visit <http://go.roguecc.edu/department/program-learning-outcomes>.

What are the employment opportunities?

Visit <http://www.roguecc.edu/GainfulEmployment>.

Prerequisites

Course No.	Course Title	Credits
BT113	Business English I or WR115 Introduction to Expository Writing or higher level composition ^{1,2}	3-4
CS____	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency ^{1,3}	0-4
MEC102	Basic Hand Tools	3
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4

Total Prerequisite Credits 10-15

Required Courses

Course No.	Course Title	Credits
First Term		
HE112	Emergency First Aid	1
MET101	Mechanical Drafting	3
WLD111	Technology of Industrial Welding I	6
_____	Approved program elective	3
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Second Term

BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
WLD104	Blueprint Reading - Mechanical	3
WLD112	Technology of Industrial Welding II	6
WLD221	Welding Codes, Procedures and Inspections	3
		15

Third Term

WLD113	Technology of Industrial Welding III	6
WLD121	Fabrication and Repair Practices I	5
_____	Approved program elective	3
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TOTAL PROGRAM CREDITS 42

Approved Program Electives

(6 credits required)

Course No.	Course Title	Credits
BA109	Ready, Set, Work: Techniques for Landing a Job	2
EET101	Introduction to Electronics	3
GS104	Physical Science with lab	4
MEC103	Industrial Safety	1
MET121	Computer Aided Drafting I: Mechanical (SolidWorks)	3
MET122	Computer Aided Drafting II: Mechanical (SolidWorks)	3
MET123	Computer Aided Drafting III: Mechanical (SolidWorks)	3
MET160	Materials and Metallurgy	3
MFG121	Manufacturing Processes I	4
MFG122	Manufacturing Processes II	4
MFG123	Manufacturing Processes III	4
WLD160	American Welding Society (AWS) Certification Seminar: Plate	1
WLD250	Selected Topics in Welding	variable
WLD260	American Welding Society (AWS) Certification Seminar: Pipe	1

¹ Required for graduation.

² Students who have successfully completed the 3-credit version of BT113 will have met the writing prerequisite.

³ Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science advisor to help determine placement.

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@rogucecc.edu
Web address www.rogucecc.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.

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