

Industrial Welding Technology

Certificate of Completion

2009-10 Academic Year

Major Code: 480508B

About the Program

Upon completion of this one-year 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. They will be able to test to certify as Level I Entry Level Welders by the AWS EG2.0 welder training programs.

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.

Entry Requirements

Students are required to take a placement test 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 levels as determined by placement test scores. 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 seven years old must be reviewed and approved by the appropriate department head before being accepted toward core requirements. High school "2+2" Early College 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 head's approval.

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 a "C" or better grade.

Prerequisites

Course No.	Course Title	Credits
BT113	Business English I or	
WR115	Introduction to Expository Writing or higher level composition ¹	3
—	Approved 3-4 credit computer science class, CS120 or above (or documented computer proficiency) ^{1,2}	0-4
MTH20	Pre-algebra (or designated placement test score as shown on current indicator chart)	4
RD30	College Reading II (or designated placement test score as shown on current indicator chart)	4

Required Courses

Course No.	Course Title	Credits
First Term		
MET101	Mechanical Drafting	3
MTH63	Applied Technical Math or	
MTH60	Fundamentals of Algebra I or higher level math	4
WLD111	Technology of Industrial Welding I	6
—	Approved program elective	0-4
13-17		
Second Term		
BT101	Human Relations in Organizations or	
PSY101	Psychology of Human Relations	3
WLD112	Technology of Industrial Welding II	6
WLD121	Fabrication and Repair Practices I	5

Course No.	Course Title	Credits
WLD140	Blueprint Reading for Welders	3
9.167	Emergency First Aid	1
		18

Course No.	Course Title	Credits
Third Term		
WLD113	Technology of Industrial Welding III	6
WLD122	Fabrication and Repair Practices II	5
WLD240	Advanced Blueprint Reading for Welders	3
		14

TOTAL PROGRAM CREDITS 45-49

Approved Program Electives

Course No.	Course Title	Credits
BA109	Ready, Set, Work: Techniques for Landing a Job	2
CT111	Computer Aided Drafting I: Architectural	3
CT211	Computer Aided Drafting II: Architectural	3
CT212	Computer Aided Drafting III: Architectural	3
GS104	Physical Science w/lab	4
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
WLD230	Art Sculpture Welding I	3
WLD231	Art Sculpture Welding II	3
WLD250	Selected Topics in Welding	variable
WLD275	Work Ethics for Welders: An Expectation	2

¹ Required for graduation.

² Successful completion of CS101 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement.

For more information contact the Industrial Welding Department:

Grants Pass or Medford (541) 245-7904
 Toll free in Oregon (800) 411-6508, Ext. 7904
 e-mail bcournoyer@rogucecc.edu
 TTY (541) 956-7338 or (541) 245-7587

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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