

Welding Technology

Certificate – 37.5 credit hours

Purpose: Instruction focuses on training students to produce acceptable, sound welds in all positions in oxyacetylene and electric arc welding and to select the correct filler rod to fit the job and the metal being welded. Upon completion of the program, students are prepared for the American Welding Society (AWS) structural stick welding certification; the AWS flux core MIG structural certification, and the State of Maine pipe certification. This qualifies graduates for employment as AWS certified welding operators in the construction, shipbuilding, fabricating, and metal and maintenance fields. Students will also be qualified to TIG weld stainless and carbon steel pipe.

Career Opportunities: Graduates of the welding technology program may find employment in shipbuilding, fabrication, construction, mechanical and maintenance industries.

Program Education Outcomes: Upon completion of the certificate curriculum in the Welding Technology program, the graduate is prepared to:

1. Demonstrate ability to produce acceptable, sound welds in all positions in oxyacetylene and electric arc welding.
2. Demonstrate ability to select the correct filler rod to fit the job and the metal being welded.
3. Demonstrate preparation for the American Welding Society structural certification and State of Maine pipe certification.
4. Qualify to TIG weld stainless and carbon steel pipe.
5. Qualify for employment as AWS certified welding operators in construction, shipbuilding, fabricating and metal and maintenance fields.

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Course #	Course Title	Credits
Semester 1		
TEC110	Safety	1
WEL160	Basic Welding Technology I	6
	Total	7
Semester 2		
DRG124	Print Reading, Sketching, and Intro to CAD	3
FYE100	First Year Experience	1
MAT106	College Mathematics for Technologies	3
TEC121	Introduction to Computer Applications	3
WEL161	Basic Welding Technology II	4.5
WEL162	Advanced Welding Preparation	1.5
	Total	16
Semester 3		
ENG101	College Composition	3
WEL163	Advanced Welding I	1
WEL164	Pipe Welding I	1.5
WEL165	Pipe Welding II	1.5
WEL166	Pipe Welding III	1
WEL167	TIG Pipe Welding Stainless I	1.5
WEL168	TIG Pipe Welding Stainless II	1
WEL169	TIG Welding Stainless II	1.5
WEL170	TIG Tube Welding	1.5
WEL171	Welding Work Cooperative	1
	Total	14.5