WELDING

CERTIFICATE PROGRAM

Students in KVCC's Welding program develop a range of technical skills, knowledge and experience through the combination of coursework and hands-on training in a modern welding lab environment.

"My hands-on industry driven aspect of this program is key in translating these skills in the workforce. Upon completion of this program, you will have the skills and confidence to excel in the welding profession you choose!"

"Welders build the world we live in. American Welding Society President David McQuaid explains the extensive impact welding has on all of us: Welding is an essential part of everyday life. From cars to high rise office buildings, airplanes to rockets, pipelines to highways, none of it would be possible without welding."



Enjoy a career in welding and metal fabrication



What Welding graduates do:

- SMAW, FCAW, and GTAW processes
- Horizontal, vertical, and overhead positions
- Oxy-fuel cutting & plasma cutting
- Safety
- Blueprint
- Fabrication
- Gouging
- OSHA30

Career Opportunities:

- Manufacturing plants
- Fabrication plants
- Automotive companies
- Small businesses
- Machine shops
- Large industrial construction projects, apprenticeships, fab shops, manufacturing
- Department of Defense contractors

For further questions about this program, please contact: kvccadmissions@mainecc.edu

WELDING

Certificate

First Semester

BPT127	Print Reading for Welders	3
MAT114	Technical Math	3
SAF101	OSHA 30 Standards	2
WLD101*	Welding I	6

Second Semester

ENG108	Technical Writing	3
WLD102*	Welding II	6
WLD110*	Metal Fabrication	3

Total Credits **26**

CRITERIA FOR GRADUATION

Students in the Welding Certificate program must complete 26 credits, achieve a minimum grade of "C" in all core courses (*), and attain a final GPA of 2.0 or higher.

WELDING

Certificate

DESCRIPTION

The Welding Certificate Program prepares the graduate for employment as a welder in industry. The graduate will be proficient in oxy-acetylene welding and plasma cutting, arc welding, MIG and fabrication. Students have the opportunity to become American Welding Society (AWS) certified when they successfully complete the tests to measure their welding skills.

PROGRAM MISSION

The mission of the KVCC Welding Certificate Program is to provide an industry based curriculum and a network of support that will enable students to build a strong foundation of skill and knowledge in preparation for a successful career in the welding and metal fabrication fields.

EDUCATIONAL OUTCOMES

Upon successful completion of the Welding program, a graduate is expected to:

1. Be employable individuals in the welding industry.
2. Be skilled in the welding field.
3. Participate in Certification Tests.
4. Have a foundation in multiple processes of welding.
5. Be able to cut steel with the oxy-fuel torch and plasma cutter.

COLLEGE ADMISSION

General admission guidelines can be found on page 34 in the catalog.

The **Welding Technology** program technical standards have been developed to inform students of the nonacademic essential functions of the program and profession. Examples are not all inclusive.

Standard	Essential Function	Examples
Communication Oral / Written	• Skills sufficient to communicate information and ideas so others will understand	• Communicate with coworkers and customers

Mobility / Motor Skills	• Motor skills sufficient to move the hands and use hands to grasp or manipulate objects
	• Mobility sufficient to perform physical activities that require considerable use of arms and legs and moving the whole body
	• Ability to work in varied spaces
		• Use hand tools
		• Perform tasks in multiple positions (flat, horizontal, vertical, and overhead) at floor level and at heights over six feet
		• Work in confined spaces
		• Physical activities may include:
		  • Bending
		  • Stooping
		  • Lifting
		  • Reaching
		  • Squatting

Physical Strength and Stamina	• Ability sufficient to lift and carry	• Lift steel plates, parts, fixtures, etc.
Sensory **• Sight** **• Sound** **• Taste** **• Touch** **• Smell**	• Visual skills sufficient to see details at close range • Ability to take precise measurements • Ability to visualize two- and three-dimensional objects and spaces • Ability to distinguish colors, shades, and textures • Visual skills to inspect or assess for safety	• Understand and interpret information from books, handouts, diagrams, charts, and tables • Read a tape measure • View blueprints and sketches • Inspect an area or piece of equipment for potential failures or safety issues
Environmental / Occupational Exposure	• Possible exposure to extreme noise levels • Possible exposure to extreme weather • Possible exposure to dust, chemicals, and fumes • Ability to tolerate variations in lighting	
Field or Industry Professional Standards	• Ability to wear safety equipment	• Wear safety glasses