

Welding Engineering Technology II, Certificate

School of Technology

The Welding Engineering Technology II Certificate provides students with a practical knowledge of welding. By combining classroom theory and practical experience, students will develop the skills needed for entry-level jobs in the field of welding. Welding courses include practice for welding certifications offered in house by our AWS Accredited Testing Facility. Those planning careers in welding need manual dexterity, good hand-eye coordination and good eyesight. They should have the ability to concentrate on detailed work for long periods and be physically able to bend, stoop and work in awkward positions, as well as possess good problem-solving aptitude, shop math skills and exhibit a strong work ethic.

Career Opportunities

Students who earn the Welding Engineering Technology Certificate II will have the necessary skill to apply for an entry-level production welding job using SMAW, GMAW or FCAW.

Program Learning Outcomes

Upon successfully completing this program, students will be able to:

- Weld SMAW and GMAW in all positions, on various materials, with or without joint preparation.
- Read, interpret and create blueprints.
- Demonstrate the ability to predict the metallurgical changes of steel as they weld and cool their work.
- Communicate technical information effectively.
- Identify defects by use of DT/NDT methods.
- Maintain and troubleshoot welding, industrial and plant equipment.

Sugg. Term	Seq #	Course ID	Course Title	Cr .	Term Offered	Prereq(s)	Options Available
Spring	1	PDV 101	First Year Seminar	1	F, Sp, Su		
	2	MET 105	Welding Metallurgy I	3	Sp		
	3	WEL 221	Metal Fabrication	4	F, Sp, Su	WEL 125 & DFT 110	
	4	WEL 228	SMAW	4	Sp	WEL 125	
	5	WEL 226	GMAW	4	Sp	WEL 125	

Total Program Credits

16