

WELDING, Diploma - 0500

Engineering & Technology Department

CIP Code: 48.0508

The Welding Technology diploma program prepares students with the knowledge and skills needed for immediate job entry. Emphasis is placed on the basic techniques of blueprint reading, oxy fuel welding, shielded metal arc welding, gas metal arc welding, and gas tungsten arc welding. Students weld on carbon steel, aluminum, and stainless steel. The diploma program is offered at the Harrisburg and York campuses.

Career Opportunities

Graduates are employed as entry-level maintenance workers, basic assembly welders, and welders' helpers in industry.

(SOC Code: 51-4121 Welders, Cutters, Solderers and Brazers)

Competency Profile

This curriculum is designed to prepare students to:

- Interpret welding blueprints
- Weld carbon steel, aluminum and stainless steel in various positions with the oxy fuel welding process
- Weld carbon steel in various positions with the shielded metal arc welding process
- Weld carbon steel, aluminum and stainless steel in various positions with the gas metal arc welding process
- Weld carbon steel, aluminum and stainless steel in various positions with the gas tungsten arc welding process

PROGRAM REQUIREMENTS (TOTAL CREDITS = 16)

General Education	Major Requirements	Other Required Courses
	WELD 101 Print Reading Analysis for Welders	GTEC 101 Safety: OSHA 30 & NFPA 70E
	WELD 103 Shielded Metal Arc Welding I	3
	WELD 111 Welding Applications	3
	WELD 120 Gas Metal Arc Welding I	4
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RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS

Fall Semester I

GTEC 101	3
WELD 101	3
WELD 103	3
WELD 111	3
WELD 120	4