

## WELDING, Diploma - 0500

*Engineering, Trades & Computer Technologies Department*

*CIP Code: 48.0508*

The Welding Technology diploma program prepares students with the knowledge and skills needed for entry-level employment in the welding industry. Emphasis is placed on learning OSHA safety practices for industrial environments and developing basic skills in Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux-Cored Arc Welding (FCAW), Gas Tungsten Arc Welding (GTAW), Oxy-Fuel Cutting/Welding/Brazing (OFCWB), Plasma Cutting (PAC), Air Carbon Arc (CAC-A) Gouging and welding symbol interpretation. The diploma may be completed at the Harrisburg Campus through on-campus/in-person instruction.

## 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:

- Use relevant welding processes to join metal components in all positions
- Perform thermal cutting and gouging on metal components
- Read and interpret welding symbols used for metal fabrication

### PROGRAM REQUIREMENTS (TOTAL CREDITS = 16)

General Education	Major Requirements	Other Required Courses	
	WELD 102 Oxy-Fuel Cutting/Welding/Brazing	GTEC 101 Safety & Health in the Workplace	3
	WELD 103 Shielded Metal Arc Welding I		3
	WELD 111 Welding Fundamentals		3
	WELD 120 Gas Metal Arc & Flux-Cored Arc Welding		4
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## RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS

### Fall Semester I

GTEC 101	3
WELD 102	3
WELD 103	3
WELD 111	3
WELD 120	4

### RECOMMENDED SEQUENCE FOR 7-WEEK/PART-TIME STUDENTS

Fall/Spring Semester 1 <sup>st</sup> 7-Weeks		Fall/Spring Semester 2 <sup>nd</sup> 7-Weeks	
GTEC 101	3	WELD 103	3
WELD 102	3	WELD 120	4
WELD 111	3		