

PROGRAMS

WELDING TECHNOLOGY

Contact(s): Christopher Cesaro

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metalworking industry.

Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses may include math, print reading, metallurgy, welding inspection, and destructive and non-destructive testing providing the student with industry-standard skills developed through classroom training and practical application.

Graduates of the Welding Technology curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

Learning Outcomes

Upon completion of this program, students should be able to:

- Fabricate metal structures based on blueprints while safely utilizing metal cutting and welding skills
- Perform SMAW fillet and groove welds in flat, horizontal, vertical and overhead positions in plate and 2G, 3G, 4G and 6G in pipe, in accordance with AWS code
- Perform GMAW/FCAW fillet and groove welds in flat, horizontal, vertical and overhead positions in plate and 2G, 3G, 4G and 6G in pipe, in accordance with AWS code
- Perform GTAW fillet and groove welds in flat, horizontal, vertical and overhead positions in plate and 2G, 3G, 4G and 6G in pipe, in accordance with AWS code

Welding Technology Diploma - D50420

First Year		
Fall		Credit Hours
ACA 111	College Student Success	1
ENG 101 or ENG 111	Applied Communications I Writing and Inquiry	3
WLD 110	Cutting Processes	2
WLD 115	SMAW (Stick) Plate	5
WLD 121	GMAW (MIG) FCAW/Plate	4
WLD 141	Symbols and Specifications	3
	Credit Hours	18
Spring		Credit Hours
ISC 112	Industrial Safety	2
MAT 110	Mathematical Measurement and Literacy	3
WBL 110 or WBL 111	World of Work Work-Based Learning I	1
WLD 116	SMAW (stick) Plate/Pipe	4
WLD 131	GTAW (TIG) Plate	4
WLD 265	Automated Welding/Cutting	4
	Credit Hours	18
Summer		Credit Hours
WLD 132	GTAW (TIG) Plate/Pipe	3
WLD 151	Fabrication I	4
	Credit Hours	7
	Total Credit Hours	43

Welding Part-time Pathway

Term 1		Credit Hours
ACA 111	College Student Success	1
WLD 121	GMAW (MIG) FCAW/Plate	4
WLD 141	Symbols and Specifications	3
	Credit Hours	8
Term 2		Credit Hours
ISC 112	Industrial Safety	2
WLD 131	GTAW (TIG) Plate	4
WLD 265	Automated Welding/Cutting	4
	Credit Hours	10
Term 3		Credit Hours
WLD 132	GTAW (TIG) Plate/Pipe	3
	Credit Hours	3
Term 4		Credit Hours
ENG 101 or ENG 111	Applied Communications I Writing and Inquiry	3
WLD 110	Cutting Processes	2
WLD 115	SMAW (Stick) Plate	5
	Credit Hours	10
Term 5		Credit Hours
MAT 110	Mathematical Measurement and Literacy	3
WBL 110 or WBL 111	World of Work Work-Based Learning I	1
WLD 116	SMAW (stick) Plate/Pipe	4
	Credit Hours	8
Term 6		Credit Hours
WLD 151	Fabrication I	4
	Credit Hours	4
	Total Credit Hours	43

Basic Welding Certificate - C50420BW

First Year		
Fall		Credit Hours
WLD 110	Cutting Processes	2
WLD 115	SMAW (Stick) Plate	5
WLD 121	GMAW (MIG) FCAW/Plate	4
	Credit Hours	11
Spring		Credit Hours
ISC 112	Industrial Safety	2
WLD 131	GTAW (TIG) Plate	4

	Credit Hours	6
	Total Credit Hours	17

Intermediate Welding Certificate - C50420IW

First Year		
Spring		Credit Hours
ACA 111	College Student Success	1
ISC 112	Industrial Safety	2
WLD 116	SMAW (stick) Plate/Pipe	4
WLD 265	Automated Welding/Cutting	4
	Credit Hours	11
Summer		Credit Hours
WLD 132	GTAW (TIG) Plate/Pipe	3
WLD 151	Fabrication I	4
	Credit Hours	7
	Total Credit Hours	18

Welding - CCP

Courses		Credit Hours
ACA 111	College Student Success	1
ISC 112	Industrial Safety	2
WLD 110	Cutting Processes	2
WLD 115	SMAW (Stick) Plate	5
WLD 121	GMAW (MIG) FCAW/Plate	4
WLD 131	GTAW (TIG) Plate	4
	Total Credit Hours	18