

Welding

Career Studies Certificate

(Pending Approval by SACSCOC)

Program Coordinator: Eddie Fultz • SBI 162 • 276-492-2065

Length: One-Two Semesters

Purpose: This program is designed to provide students training in blueprint/symbols reading, SMAW, FCAW, GMAW, and GTAW. Upon completion of Welding Career Studies Certificate, graduates will be prepared for employment as a basic welder.

Occupational Objectives: The Welding Career Studies Certificate provides the basic skills necessary to secure an entry level job as a manual or semiautomatic welder. Students will develop the basic skills necessary to read blueprints, and perform steel welds in 1F, 2F, 3F, 1G, 2G, and 3G positions. These will be accomplished in three different weld processes.

Program Notes: Along with the Career Studies Certificate in Welding, graduates will also obtain the OSHA-10 hour General Industry certification.

Track 1: (Day)

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
WEL 120	Introduction to Welding	1	2	2
WEL 123	Shielded Metal Arc Welding (SMAW)	2	3	3
SAF 130	Industrial Safety – OSHA 10	1	0	1
WEL 150	Welding Drawing & Interpretation	3	0	3
WEL 160	Gas Metal Arc Welding (GMAW)	2	3	3
WEL 161	Fluxed Cored Arc Welding (FCAW)	2	3	3
WEL 164	Gas Tungsten Arc Welding (GTAW)	2	3	3
Total Credits for Career Studies Certificate		13	14	18

Track 2: (Evening)

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
WEL 120	Introduction to Welding	1	2	2
WEL 123	Shielded Metal Arc Welding (SMAW)	2	3	3
SAF 130	Industrial Safety – OSHA 10	1	0	1
WEL 150	Welding Drawing & Interpretation	3	0	3
WEL 160	Gas Metal Arc Welding (GMAW)	2	3	3
Total		9	8	12

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Second Semester (Spring)				
WEL 161	Fluxed Cored Arc Welding (FCAW)	2	3	3
WEL 164	Gas Tungsten Arc Welding (GTAW)	2	3	3
Total		4	6	6
Total Credits for Career Studies Certificate				18