

Advanced Welding

Career Studies Certificate

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Length: One Semester

Purpose: This will be a continuation of educational training in SMAW, GMAW, and GTAW. Students will receive training in advanced levels of welding in these processes. Oxy-fuel and plasma arc cutting will also be an added part of the advanced training.

Occupational Objectives: The Advanced Welding Career Studies Certificate provides the advanced skills necessary to secure a welder job position as an advanced trained manual or semiautomatic welder. These welds will be accomplished in three different weld processes and multiple positions. Blueprint reading and weld symbols will be utilized throughout these classes.

Students must complete the Welding Career Studies Certificate prior to enrollment in the Advanced Welding Career Studies Certificate unless the Program Coordinator grants approval

Track 1: (Day)

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Spring)				
SDV 100	College Success Skills	1	0	1
HLT 106	First Aid and Safety	2	0	2
WEL 117	Oxyfuel Welding and Cutting	2	6	4
WEL 124	Shielded Metal Arc Welding (SMAW II)	2	3	3
WEL 130	Inert Gas Welding	2	6	4
WEL 136	Welding III (Inert Gas)	1	3	2
Total Credits for Career Studies Certificate		10	18	16

Track 2: (Evening)

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Spring)				
SDV 100	College Success Skills	1	0	1
HLT 106	First Aid and Safety	2	0	2
WEL 124	Shielded Metal Arc Welding (SMAW II)	2	3	3
WEL 136	Welding III (Inert Gas)	1	3	2
Total		6	6	8
Second Semester (Summer)				
WEL 130	Inert Gas Welding	2	6	4
WEL 117	Oxyfuel Welding and Cutting	2	6	4
Total		4	12	8
Total Credits for Career Studies Certificate				16

The AAS degree in [Technical Studies](#) is an available option for students who wish to further their studies following the completion of the Welding and Advanced Welding programs.