

General Information: Welding occupations are primarily concerned with joining, surfacing, or repairing structures or parts made of metal or other weldable materials. The skills and knowledge needed to determine the appropriate welding technique required for a specific project and to successfully perform that technique are gained through course work and practical experience.

Credentials: Certificate: See list below Diploma: Combination Welder

Degree: Associate of Applied Science (AAS) in Welding Technology

Program Admission Requirements: In addition to admission to the College, students must meet the following ACT or COMPASS requirements for admission to the program to pursue a diploma or degree.

Diploma: Compass Algebra-30, Reading -60, Writing-31

Degree: Compass Algebra-48, Reading -81 ACT Composite of 18 with a Math-20, English -18

Suggested Sequence of Courses for Combination Welder Diploma

Fall (1 st Semester)			Spring (2 nd Semester)		
Cat. #	Course Title	Credit	Cat. #	Course Title	Credit
WLD 110	Cutting Processes	2	WLD 140	Gas Metal Arc	2
WLD 111	Cutting Processes Lab	3	WLD 141	Gas Metal Arc Fillet	3
WLD 120	Shielded Metal Arc	3	WLD 143	Gas Metal Arc Groove	3
WLD 121	Shielded Metal Arc Fillet Lab	3	WLD 245	Gas Metal Arc Pipe	3
WLD 123	Shielded Metal Arc Groove Lab	3	WLD 170	Blue Print Reading for welders	2
MT 115	Technical Mathematics	3	WLD 171	Blue Print Reading for welders	3
Total Credits: 17			Total Credits: 16		
Fall (3 rd Semester)			AAS degree in Welding Technology requires completion of 18 credit hours in general education courses in addition to courses listed above. Three credit hours must be completed in each of the following areas: Mathematics, Natural Science, Social/Behavioral Science, Humanities/Fine Arts, Communication and Writing/Accessing Information. Sample courses include ENG 101, MT 150, SOC 101, COM 181, HIS 108, and GEO 130. See back of page.		
Cat. #	Course Title	Credit			
WLD 130	Gas Tungsten Arc	2			
WLD 131	Gas Tungsten Arc Fillet	3			
WLD 133	Gas Tungsten Arc Groove	3			
WLD 299	Cooperative Education	3			
CIS 100	Introduction to Computers	3			
WPP 200	Workplace Readiness	3			
Total Credits: 17					

Courses required for certificate options are listed on back of page.

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Welding Technology

Suggested Sequence of Courses for Combination Welder Diploma with AAS in Welding Technology

Fall (1 st Semester)			Spring (2 nd Semester)		
Cat. #	Course Title	Credits	Cat. #	Course Title	Credits
WLD110	Cutting Processes	2	WLD140	Gas Metal Arc	2
WLD111	Cutting Processes Lab	3	WLD141	Gas Metal Arc Fillet	3
WLD120	Shielded Metal Arc	3	WLD143	Gas Metal Arc Groove	3
WLD121	Shielded Metal Arc Fillet Lab	3	WLD245	Gas Metal Arc Pipe	3
WLD123	Shielded Metal Arc Groove Lab	3	MT 150	College Algebra	3
WLD170	Blue Print Reading for welders	2	CIS 100	Intro to Computers	3
Total Credits: 16			Total Credits: 17		
Fall (3 rd Semester)			(Spring 4 th Semester)		
Cat. #	Course Title	Credits	Cat. #	Course Title	Credits
WLD130	Gas Tungsten Arc	2	WLD220	Welding Certification	2
WLD131	Gas Tungsten Arc Fillet	3	WLD221	Welding Certification Lab	3
WLD133	Gas Tungsten Arc Groove	3	WLD299	Cooperative Education	2
WLD171	Blue Print Reading for welders	3	COM181	Oral Communication	3
HIS 108	History of the US	3	ENG100	English 1	3
SOC101	Introduction to Sociology	3	ART100	Intro to Art	3
Total Credits: 17			Total Credits: 16		

Required Courses for Certificates

Certificate: GAS WELDER			Certificate: ARC CUTTER		
Cat. #	Course Title	Credits	Cat. #	Course Title	Credits
WLD 100	OXY-FUEL SYSTEMS	2	WLD 110	CUTTING PROCESSES	2
WLD 101	OXY-FUEL SYSTEMS LAB	2	WLD 111	CUTTING PROCESSES LAB	3
Total Credits: 4			Total Credits: 5		

Certificate: WELDER HELPER			Certificate: TACK WELDER		
Cat. #	Course Title	Credits	Cat. #	Course Title	Credits
WLD 151	BASIC WELDING A OR	2	WLD 170	BLUEPRINT READING	2
WLD 120	SHIELDED METAL ARC WELDING AND	2	WLD 171	BLUEPRINT READING LAB	3
WLD 121	SHIELDED METAL ARC WELDING FILLET OR	3	WLD 151	BASIC WELDING A OR	2
WLD 130	GAS TUNGSTEN ARC WELDING AND	2	WLD 120	SHIELDED METAL ARC WELDING AND	2
WLD 131	GAS TUNGSTEN ARC WELDING FILLET OR	3	WLD 121	SHIELDED METAL ARC WELDING FILLET OR	3
WLD 140	GAS METAL ARC WELDING AND	2	WLD 130	GAS TUNGSTEN ARC WELDING AND	2
WLD 141	GAS METAL ARC WELDING FILLET OR	3	WLD 131	GAS TUNGSTEN ARC WELDING FILLET OR	3
WLD 152	BASIC WELDING B	5	WLD 140	GAS METAL ARC WELDING AND	2
			WLD 141	GAS METAL ARC WELDING OR	3
			WLD 152	BASIC WELDING B	5
Total Credits: 2-5			Total Credits: 7-10		

Welding Technology

Required Courses for Certificates (cont.)

Certificate: PRODUCTION LINE WELDER			Certificate: ARC WELDER		
Cat. #	Course Title	Credits	Cat. #	Course Title	Credits
WLD 130	GAS TUNGSTEN ARC WELDING	2	WLD 100	OXY-FUEL SYSTEMS OR	2
WLD 131	GAS TUNGSTEN ARC WELDING FILLET	3	WLD 101	OXY-FUEL SYSTEMS LAB	2
WLD 140	GAS METAL ARC WELDING	2	WLD 110	CUTTING PROCESSES OR	2
WLD 141	GAS METAL ARC WELDING FILLET	3	WLD 111	CUTTING PROCESSES LAB	3
WLD 100	OXY-FUEL SYSTEMS OR	2	WLD 120	SHIELDED METAL ARC WELDING	2
WLD 101	OXY-FUEL SYSTEMS LAB	2	WLD 121	SHIELDED METAL ARC WELDING FILLET OR	3
WLD 110	CUTTING PROCESSES OR	2	WLD 123	SHIELDED METAL ARC WELDING GROOVE OR	3
WLD 111	CUTTING PROCESSES LAB	3	WLD 225	SHIELDED METAL ARC WELDING OPEN GROOVE	3
WLD 120	SHIELDED METAL ARC WELDING	2	WLD 130	GAS TUNGSTEN ARC WELDING	2
WLD 121	SHIELDED METAL ARC WELDING FILLET	3	WLD 131	GAS TUNGSTEN ARC WELDING FILLET OR	3
			WLD 133	GAS TUNGSTEN ARC WELDING GROOVE	3
			WLD 140	GAS METAL ARC WELDING	2
			WLD 141	GAS METAL ARC WELDING FILLET OR	3
			WLD 143	GAS METAL ARC WELDING GROOVE	3
			WLD 170	BLUEPRINT READING	2
			WLD 171	BLUEPRINT READING LAB	3
Total Credits: 19-20			Total Credits: 24-25		

Certificate: AWS NATIONAL SKILLS STANDARD LEVEL 1			Certificate: PIPELINE WELDER		
Cat. #	Course Title	Credit	Cat. #	Course Title	Credit
WLD 100	OXY-FUEL SYSTEMS OR	2	WLD 100	OXY-FUEL SYSTEMS OR	2
WLD 101	OXY-FUEL SYSTEMS LAB	2	WLD 101	OXY-FUEL SYSTEMS LAB	2
WLD 110	CUTTING PROCESSES OR	2	WLD 110	CUTTING PROCESSES OR	2
WLD 111	CUTTING PROCESSES LAB	3	WLD 111	CUTTING PROCESSES LAB	3
WLD 120	SHIELDED METAL ARC WELDING	2	WLD 120	SHIELDED METAL ARC WELDING	2
WLD 121	SHIELDED METAL ARC WELDING FILLET	3	WLD 130	GAS TUNGSTEN ARC WELDING	2
WLD 123	SHIELDED METAL ARC WELDING GROOVE OR	3	WLD 140	GAS METAL ARC WELDING	2
WLD 225	SHIELDED METAL ARC WELDING OPEN GROOVE	3	WLD 170	BLUEPRINT READING	2
WLD 130	GAS TUNGSTEN ARC WELDING	2	WLD 171	BLUEPRINT READING LAB	3
WLD 131	GAS TUNGSTEN ARC WELDING FILLET	3	WLD 220	WELDING CERTIFICATION	2
WLD 133	GAS TUNGSTEN ARC WELDING GROOVE	3	WLD 221	WELDING CERTIFICATION LAB	3
WLD 140	GAS METAL ARC WELDING	2	WLD 227	SHIELDED METAL ARC WELDING PIPE LAB A	3
WLD 141	GAS METAL ARC WELDING FILLET	3	WLD 235	GAS TUNGSTEN ARC WELDING PIPE LAB A	3
WLD 143	GAS METAL ARC WELDING GROOVE	3	WLD 245	GAS METAL ARC WELDING PIPE LAB A ELECTIVES RECOMMENDED BELOW	3
WLD 170	BLUEPRINT READING	2	WLD 229	SHIELDED METAL ARC WELDING PIPE LAB B	3
WLD 171	BLUEPRINT READING LAB	3	WLD 237	GAS TUNGSTEN ARC WELDING PIPE LAB B	3
			WLD 247	GAS METAL ARC WELDING PIPE LAB B	3
			WLD 253	PIPE FITTING AND TEMPLATE DEVELOPMENT LAB	1
Total Credits: 33-34			Total Credits: 29-40		