

Welding Technology Certificates

ARC Cutter Certificate

Courses Required:

WLD	110	Cutting Processes	2
WLD	111	Cutting Processes Lab	3
Total Credits:			5

ARC Welder Certificate

Courses Required:

WLD	100	Oxy-Fuel Systems OR	2
WLD	110	Cutting Processes	(2)
WLD	101	Oxy-Fuel Systems Lab OR	2
WLD	111	Cutting Processes Lab	(3)
WLD	120	Shielded Metal Arc Welding (SMAW)	2
WLD	121	Shielded Metal Arc Welding (SMAW) Fillet Lab OR	3
WLD	123	Shielded Metal Arc Welding (SMAW) Groove with Backing Lab OR	(3)
WLD	225	Shielded Metal Arc Welding (SMAW) Open Groove Lab	(3)
WLD	130	Gas Tungsten Arc Welding (GTAW)	2
WLD	131	Gas Tungsten Arc Welding (GTAW) Fillet Lab OR	3
WLD	133	Gas Tungsten Arc Welding (GTAW) Groove Lab	(3)
WLD	140	Gas Metal Arc Welding (GMAW)	2
WLD	141	Gas Metal Arc Welding (GMAW) Fillet Lab OR	3
WLD	143	Gas Metal Arc Welding (GMAW) Fillet Groove Lab	(3)
WLD	170	Blueprint Reading for Welding	2
WLD	171	Blueprint Reading for Welding Lab	3
Total Credits:			24-25

AWS National Skills Standards Level I Certificate

Courses Required:

WLD	100	Oxy-Fuel Systems OR	2
WLD	110	Cutting Processes	(2)
WLD	101	Oxy-Fuel Systems Lab OR	2
WLD	111	Cutting Processes Lab	(3)
WLD	120	Shielded Metal Arc Welding (SMAW)	2
WLD	121	Shielded Metal Arc Welding (SMAW) Fillet Lab	3
WLD	123	Shielded Metal Arc Welding (SMAW) Groove with Backing Lab OR	3
WLD	225	Shielded Metal Arc Welding (SMAW) Open Groove Lab	(3)
WLD	130	Gas Tungsten Arc Welding (GTAW)	2
WLD	131	Gas Tungsten Arc Welding (GTAW) Fillet Lab	3
WLD	133	Gas Tungsten Arc Welding (GTAW) Groove Lab	3
WLD	140	Gas Metal Arc Welding (GMAW)	2
WLD	141	Gas Metal Arc Welding (GMAW) Fillet Lab	3
WLD	143	Gas Metal Arc Welding (GMAW) Fillet Groove Lab	3
WLD	170	Blueprint Reading for Welding	2
WLD	171	Blueprint Reading for Welding Lab	3
Total Credits:			33-34

Gas Welder Certificate

Courses Required:

WLD	100	Oxy-Fuel Systems	2
WLD	101	Oxy-Fuel Systems Lab	2
		Total Credits:	4

Gas Metal Arc Welding Certificate

Courses Required:

WLD	140	Gas Metal Arc Welding (GMAW)	2
WLD	141	Gas Metal Arc Welding (GMAW) Fillet Lab	3
WLD	143	Gas Metal Arc Welding (GMAW) Groove Lab OR	3
WLD	245	Gas Metal Arc Welding (GMAW) Pipe Lab A OR	(3)
WLD	147	Flux Cored Arc Welding (FCAW) Lab	(1)
WLD	170	Blueprint Reading for Welding	2
WLD	171	Blueprint Reading for Welding Lab	3
WLD	100	Oxy-Fuel Systems OR	2
WLD	110	Cutting Process	(2)
WLD	101	Oxy-Fuel Systems Lab OR	2
WLD	111	Cutting Processes Lab	(3)
		Total Credits:	15-18

Gas Tungsten Arc Welding Certificate

Courses Required:

WLD	130	Gas Tungsten Arc Welding (GTAW)	2
WLD	131	Gas Tungsten Arc Welding (GTAW) Fillet Lab	3
WLD	133	Gas Tungsten Arc Welding (GTAW) Groove Lab OR	3
WLD	235	Gas Tungsten Arc Welding (GTAW) Pipe Lab A	(3)
WLD	170	Blueprint Reading for Welding	2
WLD	171	Blueprint Reading for Welding Lab	3
WLD	100	Oxy-Fuel Systems OR	2
WLD	110	Cutting Process	(2)
WLD	101	Oxy-Fuel Systems Lab OR	2
WLD	111	Cutting Processes Lab	(3)
		Total Credits:	17-18

Pipeline Welder Certificate

Courses Required:

WLD	100	Oxy-Fuel Systems OR	2
WLD	110	Cutting Processes	(2)
WLD	101	Oxy-Fuel Systems Lab OR	2
WLD	111	Cutting Processes Lab	(3)
WLD	120	Shielded Metal Arc Welding (SMAW)	2
WLD	130	Gas Tungsten Arc Welding (GTAW)	2
WLD	140	Gas Metal Arc Welding (GMAW)	2
WLD	170	Blueprint Reading for Welding	2
WLD	171	Blueprint Reading for Welding Lab	3
WLD	220	Welding Certification	2

WLD	221	Welding Certification Lab	3
WLD	227	Shielded Metal Arc Welding (SMAW) Pipe Lab A	3
WLD	235	Gas Tungsten Arc Welding (GTAW) Pipe Lab A	3
WLD	245	Gas Metal Arc Welding (GMAW) Pipe Lab A	3
Recommended Electives:			
WLD	229	Shielded Metal Arc Welding (SMAW) Pipe Lab B	(3)
WLD	237	Gas Tungsten Arc Welding (GTAW) Pipe Lab B	(3)
WLD	247	Gas Metal Arc Welding (GMAW) Pipe Lab B	(3)
WLD	253	Pipe Fitting and Template Development Lab	(1)
Total Credits:			29-40

Production Line Welder Certificate

Courses Required:

WLD	130	Gas Tungsten Arc Welding (GTAW)	2
WLD	131	Gas Tungsten Arc Welding (GTAW) Fillet Lab	3
WLD	140	Gas Metal Arc Welding (GMAW)	2
WLD	141	Gas Metal Arc Welding (GMAW) Fillet Lab	3
WLD	100	Oxy-Fuel Systems OR	2
WLD	110	Cutting Processes	(2)
WLD	101	Oxy-Fuel Systems Lab OR	2
WLD	111	Cutting Processes Lab	(3)
WLD	120	Shielded Metal Arc Welding (SMAW)	2
WLD	121	Shielded Metal Arc Welding (SMAW) Fillet Lab	3
Total Credits:			19-20

Shielded Metal Arc Welding Certificate

Courses Required:

WLD	120	Shielded Metal Arc Welding (SMAW)	2
WLD	121	Shielded Metal Arc Welding (SMAW) Fillet Lab	3
WLD	123	Shielded Metal Arc Welding (SMAW) Groove with Backing Lab OR	3
WLD	225	Shielded Metal Arc Welding (SMAW) Open Groove Lab	(3)
WLD	170	Blueprint Reading for Welding	2
WLD	171	Blueprint Reading for Welding Lab	3
WLD	100	Oxy-Fuel Systems OR	2
WLD	110	Cutting Process	(2)
WLD	101	Oxy-Fuel Systems Lab OR	2
WLD	111	Cutting Processes Lab	(3)
Total Credits:			17-18

Tack Welder Certificate

Courses Required:

WLD	170	Blueprint Reading for Welding	2
WLD	171	Blueprint Reading for Welding Lab	3
WLD	151	Basic Welding A OR	2
WLD	120	Shielded Metal Arc Welding (SMAW) AND	(2)
WLD	121	Shielded Metal Arc Welding (SMAW) Fillet Lab OR	(3)
WLD	130	Gas Tungsten Arc Welding (GTAW) AND	(2)
WLD	131	Gas Tungsten Arc Welding (GTAW) Fillet Lab OR	(3)

WLD	140	Gas Metal Arc Welding (GMAW) AND	(2)
WLD	141	Gas Metal Arc Welding (GMAW) Fillet Lab OR	(3)
WLD	152	Basic Welding B	(5)
Total Credits:			7-10

Welder Helper Certificate

Courses Required:

WLD	151	Basic Welding A OR	2
WLD	120	Shielded Metal Arc Welding (SMAW) AND	(2)
WLD	121	Shielded Metal Arc Welding (SMAW) Fillet Lab OR	(3)
WLD	130	Gas Tungsten Arc Welding (GTAW) AND	(2)
WLD	131	Gas Tungsten Arc Welding (GTAW) Fillet Lab OR	(3)
WLD	140	Gas Metal Arc Welding (GMAW) AND	(2)
WLD	141	Gas Metal Arc Welding (GMAW) Fillet Lab OR	(3)
WLD	152	Basic Welding B OR	(5)
IMT	100	Welding for Maintenance AND	(3)
IMT	101	Welding for Maintenance Lab	(2)
Total Credits:			2-5

***Technical Electives:**

WPP	200	Workplace Principles	3
WLD	151	Basic Welding A	2
WLD	161	Submerged Arc Welding Lab	1
WLD	181	Advanced Welding Systems Lab	1
WLD	191	Plasma Arc Welding Systems Lab	1
WLD	147	Flux Cored Arc Welding Lab	1
WLD	145	Gas Metal Arc Welding Aluminum Lab	1
WLD	251	Welding Automation Lab	1
WLD	253	Pipe Fitting and Template Development Lab	1
WLD	229	Shielded Metal Arc Welding Pipe Lab B	3
WLD	239	Orbital Tube Welding	1
WLD	240	Materials Technology	2
BEX	100	Basic Electricity for Non-Majors	3
BEX	101	Basic Electricity Lab for Non-Majors	2
FEX	100	Fundamentals of Electricity for Non-Majors	3

**This list is not all inclusive. Other courses may be approved at the discretion of the program coordinator.*