



# Utah System of Higher Education

The Gateway, Salt Lake City, UT 84101

801-646-4784

## Curriculum Evaluation

## Welding Technology

*Certificate of Completion (Catalog Year: 2025, Required Hours: 450, Credits: 15)*

### Foundational Courses (Required Hours: 450, Credits: 15)

<i>Foundational Courses (Required Hours: 450, Credits: 15)</i>		Credits	Hours	Modules	Prerequisite Course Number(s)
TEWT 1000	Introduction to Welding and Cutting	2.00	60.00	0	
TEWT 1010	Measurement Systems	1.00	30.00	0	
TEWT 1111	Shielded Metal Arc Welding (SMAW) I	2.00	60.00	0	
TEWT 1112	Shielded Metal Arc Welding (SMAW) II	2.00	60.00	0	
TEWT 1211	Gas Tungsten Arc Welding (GTAW) I	2.00	60.00	0	
TEWT 1212	Gas Tungsten Arc Welding (GTAW) II	2.00	60.00	0	
TEWT 1311	Gas Metal Arc Welding (GMAW) I	2.00	60.00	0	
TEWT 1411	Flux Cored Arc Welding (FCAW) I	2.00	60.00	0	

### Supplemental Courses Varies by Institution (Required Hours: 0, Credits: 0)

<i>Bridgerland (Required Hours: 450, Credits: 15)</i>		Credits	Hours	Modules	Prerequisite Course Number(s)
TEWT 1005	Welding Overview	3.00	90.00	0	
TEWT 1020	Welding Symbols and Print Reading	2.00	60.00	0	
TEWT 1030	Automated Cutting and Welding	1.00	30.00	0	
TEWT 1040	Welding Inspection and Welding Metallurgy	1.00	30.00	0	
TEWT 1130	Shielded Metal Arc Welding (SMAW) III	2.00	60.00	0	
TEWT 1312	Gas Metal Arc Welding (GMAW) II	2.00	60.00	0	
TEWT 1330	Gas Metal Arc Welding (GMAW) Aluminum and Stainless Steel	1.00	30.00	0	
TEWT 1412	Flux Cored Arc Welding (FCAW) II	2.00	60.00	0	
TEWT 1500	Introduction to Other Welding Processes	1.00	30.00	0	
TEWT 1600	Welding Layout and Fabrication	2.00	60.00	0	
TEWT 1700	Workplace Readiness	1.00	30.00	0	
TEWT 2999	Welding Externship	2.00	90.00	0	

<i>Davis (Required Hours: 270, Credits: 9)</i>		Credits	Hours	Modules	Prerequisite Course Number(s)
TEWT 1008	Welding for Manufacturing	2.00	60.00	0	
TEWT 1045	Inspection, Metallurgy, and Blueprints	2.00	60.00	0	
TEWT 1050	Oxy Fuel Welding and Brazing Lab	2.00	60.00	0	
TEWT 1150	Shielded Metal Arc Welding (SMAW) Certification Preparation	1.00	30.00	0	
TEWT 1312	Gas Metal Arc Welding (GMAW) II	2.00	60.00	0	
TEWT 1335	Aluminum Gas Metal Arc Welding (GMAW)	1.00	30.00	0	
TEWT 1350	Gas Metal Arc Welding (GMAW) Certification Preparation	1.00	30.00	0	
TEWT 1450	Flux Cored Arc Welding Gas Shielded: AWS Certification Preparation	1.00	30.00	0	
TEWT 1800	Welding Sculpture I	2.00	60.00	0	
TEWT 1810	Welding Sculpture II	2.00	60.00	0	
TEWT 1820	SkillsUSA Preparation	2.00	60.00	0	
TEWT 1900	Welding Skills Practice	1.00	30.00	0	

TEWT 1905	Welding Skills Practice II	1.00	30.00	0	
TEWT 1910	Welding Skills Practice III	1.00	30.00	0	
TEWT 1915	Welding Skills Practice IV	1.00	30.00	0	
TEWT 1920	Welding Skills Practice V	1.00	30.00	0	
TEWT 1925	Welding Skills Practice VI	2.00	60.00	0	
TEWT 2000	Advanced Welding Processes	1.00	30.00	0	
TEWT 2010	Welding Special Projects I	2.00	60.00	0	
TEWT 2020	Welding Special Projects II	2.00	60.00	0	
TEWT 2030	Welding Special Projects III	2.00	60.00	0	
<b><i>Dixie (Required Hours: 450, Credits: 15)</i></b>		<b>Credits</b>	<b>Hours</b>	<b>Modules</b>	<b>Prerequisite Course Number(s)</b>
TEWT 1020	Welding Symbols and Print Reading	2.00	60.00	0	
TEWT 1131	Shielded Metal Arc Welding (SMAW) III	2.00	60.00	0	
TEWT 1230	Gas Tungsten Arc Welding (GTAW) III	2.00	60.00	0	
TEWT 1312	Gas Metal Arc Welding (GMAW) II	2.00	60.00	0	
TEWT 1412	Flux Cored Arc Welding (FCAW) II	2.00	60.00	0	
TEWT 1605	Welding Fabrication	2.00	60.00	0	
TEWT 1710	Career and Workplace Relations	1.00	30.00	0	
TEWT 1930	Welding Qualification	2.00	60.00	0	
<b><i>Mountainland (Required Hours: 450, Credits: 15)</i></b>		<b>Credits</b>	<b>Hours</b>	<b>Modules</b>	<b>Prerequisite Course Number(s)</b>
TEWT 1001	Introduction to Welding and Cutting II	1.00	30.00	0	
TEWT 1020	Welding Symbols and Print Reading	2.00	60.00	0	
TEWT 1132	Shielded Metal Arc Welding (SMAW) III	3.00	90.00	0	
TEWT 1231	Gas Tungsten Arc Welding (GTAW) III	2.00	60.00	0	
TEWT 1315	Gas Metal Arc Welding (GMAW) II	3.00	90.00	0	
TEWT 1413	Flux Cored Arc Welding (FCAW) II	3.00	90.00	0	
TEWT 1511	Submerged Arc Welding (SAW)	1.00	30.00	0	
<b><i>Ogden-Weber (Required Hours: 450, Credits: 15)</i></b>		<b>Credits</b>	<b>Hours</b>	<b>Modules</b>	<b>Prerequisite Course Number(s)</b>
TEWT 1020	Welding Symbols and Print Reading	2.00	60.00	0	
TEWT 1040	Welding Inspection and Welding Metallurgy	1.00	30.00	0	
TEWT 1060	Related Equipment	2.00	60.00	0	
TEWT 1312	Gas Metal Arc Welding (GMAW) II	2.00	60.00	0	
TEWT 1412	Flux Cored Arc Welding (FCAW) II	2.00	60.00	0	
TEWT 1520	Metal Finishing	1.00	30.00	0	
TEWT 1720	Industry Prep	1.00	30.00	0	
TEWT 1935	Endorsements	2.00	60.00	0	
TEWT 2130	Projects	2.00	60.00	0	
<b><i>Salt Lake (Required Hours: 450, Credits: 15)</i></b>		<b>Credits</b>	<b>Hours</b>	<b>Modules</b>	<b>Prerequisite Course Number(s)</b>
TEWT 1020	Welding Symbols and Print Reading	2.00	60.00	0	
TEWT 1040	Welding Inspection and Welding Metallurgy	1.00	30.00	0	
TEWT 1055	Oxy Fuel	1.00	30.00	0	
TEWT 1133	Shielded Metal Arc Welding (SMAW) III	2.00	60.00	0	
TEWT 1312	Gas Metal Arc Welding (GMAW) II	2.00	60.00	0	
TEWT 1333	Gas Metal Arc Welding (GMAW) III	2.00	60.00	0	
TEWT 1412	Flux Cored Arc Welding (FCAW) II	2.00	60.00	0	
TEWT 1430	Flux Cored Arc Welding (FCAW) III	2.00	60.00	0	
TEWT 1901	Welding Skill Practice I	1.00	30.00	0	
TEWT 1906	Welding Skill Practice II	1.00	30.00	0	
TEWT 2011	Welding Special Projects I	1.00	30.00	0	

TEWT 2021	Welding Special Projects II	1.00	30.00	0	
<b><i>Snow (Required Hours: 450, Credits: 15)</i></b>		<b>Credits</b>	<b>Hours</b>	<b>Modules</b>	<b>Prerequisite Course Number(s)</b>
TEWT 1020	Welding Symbols and Print Reading	2.00	60.00	0	
TEWT 1070	Welding Inspection and Testing	3.00	90.00	0	
TEWT 1312	Gas Metal Arc Welding (GMAW) II	2.00	60.00	0	
TEWT 1412	Flux Cored Arc Welding (FCAW) II	2.00	60.00	0	
TEWT 1610	Metal Fabrication I	3.00	90.00	0	
TEWT 1615	Metal Fabrication II	3.00	90.00	0	
TEWT 2100	Specialized Shielded Metal Arc Welding (SMAW) I	3.00	90.00	0	
TEWT 2110	Specialized Shielded Metal Arc Welding (SMAW) II	3.00	90.00	0	
TEWT 2200	Specialized Gas Tungsten Arc Welding (GTAW) I	3.00	90.00	0	
TEWT 2210	Specialized Gas Tungsten Arc Welding (GTAW) II	3.00	90.00	0	
TEWT 2300	Specialized Gas Metal Arc Welding (GMAW) I	3.00	90.00	0	
TEWT 2310	Specialized Gas Metal Arc Welding (GMAW) II	3.00	90.00	0	
TEWT 2400	Specialized Flux Cored Arc Welding (FCAW) I	3.00	90.00	0	
TEWT 2410	Specialized Flux Cored Arc Welding (FCAW) II	3.00	90.00	0	
<b><i>Southwest (Required Hours: 270, Credits: 9)</i></b>		<b>Credits</b>	<b>Hours</b>	<b>Modules</b>	<b>Prerequisite Course Number(s)</b>
TEWT 1003	Advanced Thermal Cutting and Brazing	2.00	60.00	0	
TEWT 1045	Inspection, Metallurgy, and Blueprints	2.00	60.00	0	
TEWT 1312	Gas Metal Arc Welding (GMAW) II	2.00	60.00	0	
TEWT 1450	Flux Cored Arc Welding Gas Shielded: AWS Certification Preparation	1.00	30.00	0	
TEWT 1620	Fabrication Tools	1.00	30.00	0	
TEWT 1900	Welding Skills Practice	1.00	30.00	0	
<b><i>Tooele (Required Hours: 270, Credits: 9)</i></b>		<b>Credits</b>	<b>Hours</b>	<b>Modules</b>	<b>Prerequisite Course Number(s)</b>
TEWT 1006	Machining for Welders	2.00	60.00	0	
TEWT 1040	Welding Inspection and Welding Metallurgy	1.00	30.00	0	
TEWT 1045	Inspection, Metallurgy, and Blueprints	2.00	60.00	0	
TEWT 1336	Aluminum Gas Metal Arc Welding	1.00	30.00	0	
TEWT 1440	FCAW Self-Shielded Welding	2.00	60.00	0	
TEWT 1450	Flux Cored Arc Welding Gas Shielded: AWS Certification Preparation	1.00	30.00	0	
TEWT 1530	Basic CNC Cutting and Operation	1.00	30.00	0	
TEWT 1535	Advanced CNC Cutting and Operation	2.00	60.00	0	
TEWT 1540	Basic Tube Notching and Welding	1.00	30.00	0	
TEWT 1630	Basic Sheet Metal Welding	2.00	60.00	0	
TEWT 1640	Basic Sheet Metal Fabrication	1.00	30.00	0	
TEWT 1645	Advanced Sheet Metal Fabrication	1.00	30.00	0	
TEWT 1801	Welding Sculpture I	2.00	60.00	0	
TEWT 1811	Welding Sculpture II	2.00	60.00	0	
TEWT 1900	Welding Skills Practice	1.00	30.00	0	
TEWT 1907	Welding Skills Practice II	2.00	60.00	0	
TEWT 1945	Weld Test/Job Preparation	1.00	30.00	0	
TEWT 2012	Welding Special Projects	2.00	60.00	0	
<b><i>USU-Eastern (Required Hours: 450, Credits: 15)</i></b>		<b>Credits</b>	<b>Hours</b>	<b>Modules</b>	<b>Prerequisite Course Number(s)</b>
TEWT 1020	Welding Symbols and Print Reading	2.00	60.00	0	
TEWT 1075	Welding Inspection	3.00	90.00	0	
TEWT 1080	Welding Metallurgy	3.00	90.00	0	
TEWT 1140	Shielded Metal Arc Welding (SMAW) Theory	2.00	60.00	0	
TEWT 1240	Gas Tungsten Arc Welding (GTAW) Theory	2.00	60.00	0	

TEWT 1312	Gas Metal Arc Welding (GMAW) II	2.00	60.00	0	
TEWT 1340	Gas Metal Arc Welding (GMAW) and Flux-Cored Arc Welding (FCAW) Theory	2.00	60.00	0	
TEWT 1412	Flux Cored Arc Welding (FCAW) II	2.00	60.00	0	
TEWT 1545	Advanced Pipe Welding	5.00	150.00	0	
TEWT 1550	Related Welding Processes	5.00	150.00	0	
TEWT 1650	Practical Fabrication and Layout	5.00	150.00	0	
TEWT 1730	Professional Vocational Leadership	2.00	60.00	0	
TEWT 1815	Welding Sculpture	3.00	90.00	0	
TEWT 2140	Advanced Shielded Metal Arc Welding (SMAW)	5.00	150.00	0	
TEWT 2240	Advanced Gas Tungsten Arc Welding (GTAW)	5.00	150.00	0	
TEWT 2340	Advanced Gas Metal Arc Welding (GMAW) and Flux-Cored Arc Welding (FCAW)	5.00	150.00	0	