Utah System of Higher Education
The Gateway, Salt Lake City, UT 84101
801-646-4784

Welding Technology

Technical Certificate (Catalog Year: 2027)

Foundational Courses (14 Credits / 420 Clock-Hours)

		Credits	Clock-Hours
TEWT 1000	Introduction to Welding and Cutting	2	60
TEWT 1111	Shielded Metal Arc Welding (SMAW) I	2	60
TEWT 1112	Shielded Metal Arc Welding (SMAW) II	2	60
TEWT 1211	Gas Tungsten Arc Welding (GTAW) I	2	60
TEWT 1212	Gas Tungsten Arc Welding (GTAW) II	2	60
TEWT 1311	Gas Metal Arc Welding (GMAW) I	2	60
TEWT 1411	Flux Cored Arc Welding (FCAW) I	2	60

Supplemental Courses Varies by Institution

Bridgerland (16 Credits / 480 Clock-Hours)

		Credits	Clock-Hours
TEWT 1020	Welding Symbols and Print Reading	2	60
TEWT 1030	Automated Cutting and Welding	1	30
TEWT 1042	Welding Metallurgy and Inspection Fundamentals	2	60
TEWT 1134	Shielded Metal Arc Welding (SMAW) III	3	90
TEWT 1232	Gas Tungsten Arc Welding (GTAW) III	3	90
TEWT 1312	Gas Metal Arc Welding (GMAW) II	2	60
TEWT 1330	Gas Metal Arc Welding (GMAW) Aluminum and Stainless Steel	1	30
TEWT 1412	Flux Cored Arc Welding (FCAW) II	2	60
TEWT 1500	Introduction to Other Welding Processes	1	30
TEWT 1600	Welding Layout and Fabrication	2	60
TEWT 2012	Welding Special Projects	2	60
TEWT 2900	Welding Externship	3	135

Davis (9 Credits / 270 Clock-Hours)

		Credits	Clock-Hours
TEWT 1008	Welding for Manufacturing	2	60
TEWT 1045	Inspection, Metallurgy, and Blueprints	2	60
TEWT 1050	Oxy Fuel Welding and Brazing Lab	2	60
TEWT 1150	Shielded Metal Arc Welding (SMAW) Certification Preparation	1	30
TEWT 1312	Gas Metal Arc Welding (GMAW) II	2	60
TEWT 1335	Aluminum Gas Metal Arc Welding (GMAW)	1	30
TEWT 1350	Gas Metal Arc Welding (GMAW) Certification Preparation	1	30
TEWT 1450	Flux Cored Arc Welding Gas Shielded: AWS Certification Preparation	1	30
TEWT 1800	Welding Sculpture I	2	60
TEWT 1810	Welding Sculpture II	2	60
TEWT 1820	SkillsUSA Preparation	2	60

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TEWT 1900	Welding Skills Practice	1	30
TEWT 1905	Welding Skills Practice II	1	30
TEWT 1910	Welding Skills Practice III	1	30
TEWT 1915	Welding Skills Practice IV	1	30
TEWT 1920	Welding Skills Practice V	1	30
TEWT 1925	Welding Skills Practice VI	2	60
TEWT 2000	Advanced Welding Processes	1	30
TEWT 2010	Welding Special Projects I	2	60
TEWT 2020	Welding Special Projects II	2	60
TEWT 2030	Welding Special Projects III	2	60
Dixie (15 Credits / 450 Clock-Hours)		Credits	Clock-Hours
TEWT 1020	Welding Symbols and Print Reading	2	60
TEWT 1131	Shielded Metal Arc Welding (SMAW) III	2	60
TEWT 1230	Gas Tungsten Arc Welding (GTAW) III	2	60
TEWT 1312	Gas Metal Arc Welding (GMAW) II	2	60
TEWT 1412	Flux Cored Arc Welding (FCAW) II	2	60
TEWT 1605	Welding Fabrication	2	60
TEWT 1710	Career and Workplace Relations	1	30
TEWT 1930	Welding Qualification	2	60
Mountainland (16 Credits / 480 Clock-Hours)		Credits	Clock-Hours
TEWT 1001	Introduction to Welding and Cutting II	1	30
TEWT 1021	Blueprints	3	90
TEWT 1132	Shielded Metal Arc Welding (SMAW) III	3	90
TEWT 1231	Gas Tungsten Arc Welding (GTAW) III	2	60
TEWT 1315	Gas Metal Arc Welding (GMAW) II	3	90
TEWT 1413	Flux Cored Arc Welding (FCAW) II	3	90
TEWT 1511	Submerged Arc Welding (SAW)	1	30
Ogden-Weber (13 Credits / 390 Clock-Hours)		Credits	Clock-Hours
TEWT 1010	Measurement Systems	1	30
TEWT 1020	Welding Symbols and Print Reading	2	60
TEWT 1312	Gas Metal Arc Welding (GMAW) II	2	60
TEWT 1412	Flux Cored Arc Welding (FCAW) II	2	60
TEWT 1440	FCAW Self-Shielded Welding	2	60
TEWT 1600	Welding Layout and Fabrication	2	60
TEWT 1935	Endorsements	2	60
Salt Lake (13 Credits / 390 Clock-Hours)		Credits	Clock-Hours
TEWT 1010	Measurement Systems	1	30
TEWT 1020	Welding Symbols and Print Reading	2	60

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TEWT 1040	Welding Inspection and Welding Metallurgy	1	30
TEWT 1055	Oxy Fuel	1	30
TEWT 1133	Shielded Metal Arc Welding (SMAW) III	1	30
TEWT 1312	Gas Metal Arc Welding (GMAW) II	2	60
TEWT 1333	Gas Metal Arc Welding (GMAW) III	1	30
TEWT 1365	Related Machining Concepts	2	60
TEWT 1412	Flux Cored Arc Welding (FCAW) II	2	60
TEWT 1430	Flux Cored Arc Welding (FCAW) III	1	30
Snow (15 Credits / 450 Clock-Hours)		Credits	Clock-Hours
TEWT 1020	Welding Symbols and Print Reading	2	60
TEWT 1070	Welding Inspection and Testing	3	90
TEWT 1312	Gas Metal Arc Welding (GMAW) II	2	60
TEWT 1412	Flux Cored Arc Welding (FCAW) II	2	60
TEWT 1610	Metal Fabrication I	3	90
TEWT 1615	Metal Fabrication II	3	90
TEWT 2100	Specialized Shielded Metal Arc Welding (SMAW) I	3	90
TEWT 2110	Specialized Shielded Metal Arc Welding (SMAW) II	3	90
TEWT 2200	Specialized Gas Tungsten Arc Welding (GTAW) I	3	90
TEWT 2210	Specialized Gas Tungsten Arc Welding (GTAW) II	3	90
TEWT 2300	Specialized Gas Metal Arc Welding (GMAW) I	3	90
TEWT 2310	Specialized Gas Metal Arc Welding (GMAW) II	3	90
TEWT 2400	Specialized Flux Cored Arc Welding (FCAW) I	3	90
TEWT 2410	Specialized Flux Cored Arc Welding (FCAW) II	3	90
Southwest (10 Credits / 300 Clock-Hours)		Credits	Clock-Hours
TEWT 1010	Measurement Systems	1	30
TEWT 1004	Advanced Thermal Cutting and Brazing	1	30
TEWT 1045	Inspection, Metallurgy, and Blueprints	2	60
TEWT 1135	Shielded Metal Arc Welding (SMAW) III	2	60
TEWT 1312	Gas Metal Arc Welding (GMAW) II	2	60
TEWT 1450	Flux Cored Arc Welding Gas Shielded: AWS Certification Preparation	1	30
TEWT 1620	Fabrication Tools	1	30
Tooele (9 Credits / 270 Clock-Hours)		Credits	Clock-Hours
TEWT 1312	Gas Metal Arc Welding (GMAW) II	2	60
TEWT 1339	Aluminum Gas Metal Arc Welding and Applications	2	60
TEWT 1412	Flux Cored Arc Welding (FCAW) II	2	60
TEWT 1440	FCAW Self-Shielded Welding	2	60
TEWT 1531	CNC Cutting and Operation	2	60
TEWT 1560	Robotic Welding	2	60
TEWT 1631	Sheet Metal Fabrication and Welding	2	60

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TEWT 1801	Welding Sculpture I	2	60
TEWT 1811	Welding Sculpture II	2	60
TEWT 1950	Welding Externship I	2	90
Uintah Basin (5 Credits / 150 Clock-Hours)		Credits	Clock-Hours
TEWT 1320	Gas Metal Arc Welding II/Flux Cored Arc Welding II	3	90
TEWT 1660	Fabrication	2	60
USU-Eastern (15 Credits / 450 Clock-Hours)		Credits	Clock-Hours
TEWT 1020	Welding Symbols and Print Reading	2	60
TEWT 1075	Welding Inspection	3	90
TEWT 1080	Welding Metallurgy	3	90
TEWT 1140	Shielded Metal Arc Welding (SMAW) Theory	2	60
TEWT 1240	Gas Tungsten Arc Welding (GTAW) Theory	2	60
TEWT 1312	Gas Metal Arc Welding (GMAW) II	2	60
TEWT 1340	Gas Metal Arc Welding (GMAW) and Flux-Cored Arc Welding (FCAW) Theory	2	60
TEWT 1412	Flux Cored Arc Welding (FCAW) II	2	60
TEWT 1545	Advanced Pipe Welding	5	150
TEWT 1550	Related Welding Processes	5	150
TEWT 1650	Practical Fabrication and Layout	5	150
TEWT 1730	Professional Vocational Leadership	2	60
TEWT 1815	Welding Sculpture	3	90
TEWT 2140	Advanced Shielded Metal Arc Welding (SMAW)	5	150
TEWT 2240	Advanced Gas Tungsten Arc Welding (GTAW)	5	150
TEWT 2340	Advanced Gas Metal Arc Welding (GMAW) and Flux-Cored Arc Welding (FCAW)	5	150