



Tooele Technical College

88 S Tooele Blvd, Tooele, UT 84074

435-248-1800

Certificate Syllabus		Welding Technician II
Certificate 1 Year (Catalog Year: 2020)		
Tooele Tech Core (970 hours required)		Hours
<i>Welding Technician II (970 hours required)</i>		<i>Hours</i>
<i>Workplace Relations (WKS1501)</i>		20.00
<i>Attitude (1)</i>		5.00
<i>Time Management (2)</i>		5.00
<i>Communication (3)</i>		5.00
<i>Conflict Resolution/Relationship Building (4)</i>		5.00
<i>Introduction and Safety (WELD1901)</i>		11.00
<i>Introduction to Welding Part I (1)</i>		3.00
<i>Introduction to Welding Part II (2)</i>		3.00
<i>Welding Safety (3)</i>		5.00
<i>Welding, Oxyfuel and Plasma Cutting (WELD1902)</i>		43.00
<i>Oxyfuel Safety, Setup, and Operation (1)</i>		10.00
<i>Flame Cutting (2)</i>		5.00
<i>Plasma Arc Cutting (3)</i>		5.00
<i>Carbon Arc Cutting (4)</i>		5.00
<i>Oxyfuel Gases and Filler Metals (5)</i>		5.00
<i>Oxyfuel Welding (6)</i>		10.00
<i>Soldering, Brazing and Braze Welding (7)</i>		3.00
<i>Shielded Metal Arc Welding I (Stick Welding) (WELD1903)</i>		25.00
<i>SMAW Equipment (1)</i>		5.00
<i>SMAW Welding of Plate in Flat Position, Stringer Beads and Pad (2)</i>		20.00
<i>Gas Metal Arc Welding (Mig Welding) (WELD1904)</i>		145.00
<i>GMAW Equipment (1)</i>		5.00
<i>GMAW Part 1, Fillets (2 F) (2)</i>		15.00
<i>GMAW Fillets (3 F) (3)</i>		20.00
<i>GMAW Fillets (4 F) (4)</i>		15.00
<i>GMAW Groove Weld with Backing (1 G) (5)</i>		15.00
<i>GMAW Groove Weld with Backing (2 G) (6)</i>		15.00
<i>GMAW Groove Weld with Backing (3 G) (7)</i>		15.00
<i>GMAW Open Groove Weld (1 G) (8)</i>		15.00
<i>GMAW Open Groove Weld (2 G) (9)</i>		15.00
<i>GMAW Open Groove Weld (3 G) (10)</i>		15.00
<i>Shop Math 1 (WELD1905)</i>		25.00

<i>Fractions & Decimals (1)</i>	6.00
<i>Linear Measurement (2)</i>	6.00
<i>Averages, Percentages, Costs & Wages (3)</i>	6.00
<i>Geometry (4)</i>	7.00
Student Project (WELD1906)	25.00
<i>Student Project (1)</i>	25.00
Blueprint Reading (WELD1505)	60.00
<i>Blueprint Lines, Views, & Dimensions (1)</i>	15.00
<i>Materials, Shapes, & Views (2)</i>	33.00
<i>Weldments (3)</i>	12.00
Shop Math 2 (WELD1907)	35.00
<i>Equations (1)</i>	7.00
<i>Ratio and Proportion (2)</i>	7.00
<i>Perimeter (3)</i>	7.00
<i>Area Measurement (4)</i>	7.00
<i>Volume Measure (5)</i>	7.00
Shielded Metal Arc Welding II (WELD1507)	280.00
<i>E7018 Fillets (2F) (1)</i>	20.00
<i>E7018 Fillets (3F) (2)</i>	20.00
<i>E7018 Fillets (4F) (3)</i>	20.00
<i>E6010 Fillets (2F) (4)</i>	20.00
<i>E6010 Fillets (3F) (5)</i>	20.00
<i>E6010 Fillets (4F) (6)</i>	20.00
<i>E7018 Groove Welding w/Backing (1G) (7)</i>	20.00
<i>E7018 Groove Welding w/Backing (2G) (8)</i>	20.00
<i>E7018 Groove Welding w/Backing (3G) (9)</i>	20.00
<i>E7018 Groove Welding w/Backing (4G) (10)</i>	20.00
<i>E6010 Groove Welding w/o Backing (1G) (11)</i>	20.00
<i>E6010 Groove Welding w/o Backing (2G) (12)</i>	20.00
<i>E6010 Groove Welding w/o Backing (3G) (13)</i>	20.00
<i>E6010 Groove Welding w/o Backing (4G) (14)</i>	20.00
Flux-cored Arc Welding (Dual Shield Welding) (WELD1908)	81.00
<i>Flux Cored Arc Welding Equipment (1)</i>	3.00
<i>Flux Cored Arc Welding (2)</i>	3.00
<i>Flux Cored Arc Welding Fillet (2 F) (3)</i>	10.00
<i>Flux Cored Arc Welding Fillet (3 F) (4)</i>	10.00
<i>Flux Cored Arc Welding Fillet (4 F) (5)</i>	10.00
<i>Flux Cored Arc Groove Welding w/Backing (1 G) (6)</i>	15.00
<i>Flux Cored Arc Groove Welding w/Backing (2 G) (7)</i>	15.00
<i>Flux Cored Arc Groove Welding w/Backing (3 G) (8)</i>	15.00
Gas Tungsten Arc Welding (Tig Welding) (WELD1909)	190.00
<i>Gas Tungsten Arc Welding Equipment (1)</i>	5.00
<i>Gas Tungsten Arc Welding Stringers on Flat Plate (2)</i>	12.00
<i>Gas Tungsten Arc Welding Fillets (2 F) (3)</i>	20.00

<i>Gas Tungsten Arc Welding Fillets (3 F) (4)</i>	20.00
<i>Gas Tungsten Arc Welding Fillets (4 F) (5)</i>	21.00
<i>Gas Tungsten Arc Groove Weld w/Backing (1 G) (6)</i>	12.00
<i>Gas Tungsten Arc Groove Weld w/Backing (2 G) (7)</i>	17.00
<i>Gas Tungsten Arc Groove Weld w/Backing (3 G) (8)</i>	17.00
<i>Gas Tungsten Arc Open Groove Weld (1 G) (9)</i>	22.00
<i>Gas Tungsten Arc Open Groove Weld (2 G) (10)</i>	22.00
<i>Gas Tungsten Arc Open Groove Weld (3 G) (11)</i>	22.00
<i>Student Project / Sculpture (WELD1910)</i>	30.00
<i>Student Project / Sculpture (1)</i>	30.00