



Tooele Applied Technology College

88 S Tooele Blvd, Tooele, Utah 84074

435-248-1800

Certificate Syllabus		Welding Technician II
Certificate 1 Year (Catalog Year: 2017)		
TATC Core (970 hours required)	Hours	
<i>Welding Technician II (970 hours required)</i>	<i>Hours</i>	
<i>Introduction and Safety (WELD1501)</i>	15.00	
<i>Introduction to Welding Part 1 (1)</i>	5.00	
<i>Introduction to Welding Part II (2)</i>	5.00	
<i>Welding Safety (3)</i>	5.00	
<i>Welding, Oxyfuel and Plasma Cutting (WELD1502)</i>	45.00	
<i>Oxyfuel Safety, Setup, and Operation (1)</i>	10.00	
<i>Flame Cutting (2)</i>	7.00	
<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) (WELD1503)</i>	45.00	
<i>SMAW Equipment (1)</i>	5.00	
<i>SMAW Welding of Plate in Flat Position, Stringer Beads and Pad (2)</i>	40.00	
<i>Gas Metal Arc Welding (Mig Welding) (WELD1504)</i>	160.00	
<i>GMAW Equipment (1)</i>	5.00	
<i>GMAW Part 1, 3 Pass T-Fillets (2 F) (2)</i>	15.00	
<i>GMAW 3 Pass T-Fillets (3 F) (3)</i>	20.00	
<i>GMAW 3 Pass T-Fillets (4 F) (4)</i>	15.00	
<i>GMAW Groove Weld with Backing (1 G) (5)</i>	20.00	
<i>GMAW Groove Weld with Backing (2 G) (6)</i>	20.00	
<i>GMAW Groove Weld with Backing (3 G) (7)</i>	20.00	
<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>Workplace Relations (WKSK1501)</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>Blueprint Reading (WELD1505)</i>	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 (WELD1506)	90.00
<i>Fractions & Decimals (1)</i>	10.00
<i>Linear Measurement (2)</i>	10.00
<i>Averages, Percentages, Costs & Wages (3)</i>	10.00
<i>Geometry (4)</i>	10.00
<i>Equations (5)</i>	10.00
<i>Ratio and Proportion (6)</i>	10.00
<i>Perimeter (7)</i>	10.00
<i>Area Measurement (8)</i>	10.00
<i>Volume Measure (9)</i>	10.00
Shielded Metal Arc Welding II (WELD1507)	280.00
<i>E7018 3 Pass T-Fillets (2F) (1)</i>	20.00
<i>E7018 3 Pass T-Fillets (3F) (2)</i>	20.00
<i>E7018 3 Pass T-Fillets (4F) (3)</i>	20.00
<i>E6010 3 Pass T-Tillets (2F) (4)</i>	20.00
<i>E6010 3 Pass T-Tillets (3F) (5)</i>	20.00
<i>E6010 3 Pass T-Tillets (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) (WELD1508)	80.00
<i>Flux Cored Arc Welding Equipment (1)</i>	2.00
<i>Flux Cored Arc Welding (2)</i>	3.00
<i>Flux Cored Arc Welding 3 Pass T-Fillet (2 F) (3)</i>	10.00
<i>Flux Cored Arc Welding 3 Pass T-Fillet (3 F) (4)</i>	10.00
<i>Flux Cored Arc Welding 3 Pass T-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) (WELD1512)	175.00
<i>Gas Tungsten Arc Welding Equipment (1)</i>	5.00
<i>Gas Tungsten Arc Welding Stringers on Flat Plate (2)</i>	10.00
<i>Gas Tungsten Arc Welding 3 Pass T-Fillets (2F) (3)</i>	20.00
<i>Gas Tungsten Arc Welding 3 Pass T-Fillets (3F) (4)</i>	20.00
<i>Gas Tungsten Arc Welding 3 Pass T-Fillets (4F) (5)</i>	20.00
<i>Gas Tungsten Arc Groove Weld w/ Backing (1G) (6)</i>	10.00

<i>Gas Tungsten Arc Groove Weld w/ Backing (2G) (7)</i>	15.00
<i>Gas Tungsten Arc Groove Weld w/ Backing (3G) (8)</i>	15.00
<i>Gas Tungsten Arc Open Groove Weld (1G) (9)</i>	20.00
<i>Gas Tungsten Arc Open Groove Weld (2G) (10)</i>	20.00
<i>Gas Tungsten Arc Open Groove Weld (3G) (11)</i>	20.00