



Program of Study: Welding Technology Certificate

Career Pathway: Skilled Trades

Secondary Partner:

Post-secondary Partner: Trinidad State College

Program Name:

Program Name: Welding Technology Certificate

CIP:

CIP: 48.0508

Program ID:

Program ID: CER_EPIW

Secondary Program Description:	
Career and Technical Courses	Possibilities of careers, and demand relating to this Pathway
State Graduation Requirements: www.cde.state.co.us/postsecondary/graduationguidelines	
High School/Secondary	<ul style="list-style-type: none"> OSH 1310 10-Hr. Construction Industry Standards CE WEL 1002 Oxyacetylene Joining Processes CE WEL 1013 Oxyfuel and Plasma Cutting CE WEL 1021 Structural Welding I CE WEL 1024 Gas Tungsten Arc Welding I CE WEL 1025 Introduction to Gas Metal Arc Welding, or WEL 2024 Gas Tungsten Arc Welding II CE BUS 1021 Basic Workplace Skills CE WEL 1022 Structural Welding II CE WEL 2003 Flux Cored Arc Welding I CE WEL 2030 Pipe Welding I CE WEL 2031 Pipe Welding II CE WEL 1025 Introduction to Gas Metal Arc Welding, or WEL 2024 Gas Tungsten Arc Welding II CE
<p>Related Industry Certifications/Credential(s) offered through program: OSH 10-hour safety; program certificate</p>	<p>Possibilities of Careers: Welder, Fabricator, Finishing Technician, Fitter-Welder, Mig Welder, Robot Operator, Braze Operator, Machine Operator, Spot Welder, Technical Associate (TA), Maintenance Welder, Sub Arc Operator, Brazer, Solderer, Wirer, Assembly Line Brazer, Connector, Electronic Technician, Production Technician, Electrical Assembler, Fitter, Welder-Fabricator, Layout Man, Ship Fitter, Weld Technician, Mill Beam Fitter, Structural Steel Fitter, Tack Welder</p> <p>Employment Demand and Wage Data: Typical Wages for Welders, Cutters, Solderers, and Brazers (no data available for Welders, Cutters, and Welder Fitters) is \$49,370 Median Annual Wage in Colorado; \$47,540 across the U.S. Projected Job Openings are 42,600 and Projected Growth from 2022-2032 indicates little or no change. The Employment Wage Statistics for this occupation in Colorado for 2022 was \$22.86 for entry level hourly wage and \$32,077 for annual wage or salary. Experienced welders in Colorado for 2022 have an average salary of \$72,800.</p> <p>Work-based Learning offered through program: Career Research Cooperative Education Job Shadowing</p>
<p>Advanced Credit Options Key: Notate above which course has an articulation agreement or concurrent enrollment. AA – Course is approved for Articulation Agreement CE – Course is offered as Concurrent Enrollment</p>	<p>CTSO organization(s):</p> <p><input type="checkbox"/> DECA <input type="checkbox"/> FBLA <input type="checkbox"/> FCCLA <input type="checkbox"/> FFA <input type="checkbox"/> CCSA <input type="checkbox"/> HOSA <input type="checkbox"/> SkillsUSA <input type="checkbox"/> TSA <input type="checkbox"/> SC²</p>

POSTSECONDARY CREDENTIALS				
Postsecondary	Certificate(s) offered through program:	Associate degree(s) offered through program:	Bachelor's Degree(s) program aligns to:	Advanced Degree(s) program aligns to:
	OSH 10-hour safety; program certificate	EPIC Welding EPIC Heavy Equipment EPIC Diesel Technology	Industrial Engineering Mechanical Engineering Civil Engineering	Engineering Management Industrial and Systems Engineering Mechanical Engineering
	Postsecondary Program Description: This two-year program is designed to prepare students for entry level employment in hand-welding or flame-cutting equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.			
	Program Requirements for Entry: http://www.trinidadstate.edu/admissions			
	CTE Courses		General Education Courses	
	Semester 1 <ul style="list-style-type: none"> • OSH 1310 10-Hr. Construction Industry Standards • WEL 1002 Oxyacetylene Joining Processes • WEL 1013 Oxyfuel and Plasma Cutting • WEL 1021 Structural Welding I • WEL 1024 Gas Tungsten Arc Welding I • WEL 1025 Introduction to Gas Metal Arc Welding, or WEL 2024 Gas Tungsten Arc Welding II Semester 2 <ul style="list-style-type: none"> • BUS 1021 Basic Workplace Skills • WEL 1022 Structural Welding II • WEL 2003 Flux Cored Arc Welding I • WEL 2030 Pipe Welding I • WEL 2031 Pipe Welding II • WEL 1025 Introduction to Gas Metal Arc Welding, or WEL 2024 Gas Tungsten Arc Welding II 			

District/College Review

Secondary Partner

Print Name: Title: Signature: Date:

Postsecondary Partner

Print Name: Title: Signature: Date: