



**Pathway: Manufacturing Production**

*Plan of Study: Welding Technology*

**Program: Welding Technology**

**Career Goal (O\*Net Code):** [CIP 48.0508 to SOC Crosswalk](#); [O\\*Net Search for Careers Related to Welder](#)  
(Click below to access education, skills, and employment outlook information)

51-4121.00 <a href="#">Welders, Cutters, and Welder Fitters</a> 🌟🌱	47-2152.01 <a href="#">Pipe Fitters and Steamfitters</a> 🌟🌱
51-4121.06 <a href="#">Welders, Cutters, Solderers, and Brazers</a> 🌱	47-2221.00 <a href="#">Structural Iron and Steel Workers</a> 🌱
51-4121.07 <a href="#">Solderers and Brazers</a> 🌱🌱	
51-4122.00 <a href="#">Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders</a>	
47-2211.00 <a href="#">Sheet Metal Workers</a> 🌱	
47-2011.00 <a href="#">Boilermakers</a> 🌱	

🌟 - Bright Outlook    🌱 - Green

**Relevant Occupational Experience**  
(Your Life Experiences may be worth College Credit!):


**CCCS Credit for Prior Learning Guide**

**FRCC Credit for Prior Learning**

- [FRCC Standards for Awarding](#)
- [Policies and Procedures](#)
- [Transferability](#)

**LMI Gateway Link to Related Occupations**

**Possible Pathways to your Career!**

	<b>Programs Available</b> 	<b>Program Length</b> (*Based on meeting Program Entrance Requirements)	<b>Estimated Tuition</b> (*Based on Resident Tuition after COF)	<b>Career Options</b>	<b>Salary Range</b>
Certificate Option(s)	<a href="#">Comprehensive Welding Certificate</a> <a href="#">Gas Metal Arc Welding (MIG) Certificate</a> <a href="#">Gas Tungsten Arc Welding (TIG) Certificate</a> <a href="#">Oxyacetylene Welding Certificate</a> <a href="#">Pipe Code Welding Certificate</a> <a href="#">Creative Metalworking Certificate</a> <a href="#">Shielded Metal Arc Welding Certificate</a> <a href="#">Welding Fundamentals Certificate</a>	41 Credits 9 Credits 9 Credits 5 Credits 13 Credits 28 Credits 13 Credits 9 Credits	\$5,120.90 \$1,124.10 \$1,124.10 \$ 624.50 \$1,623.70 \$3,497.20 \$1,623.70 \$1,124.10	<a href="#">Welder, Fabricator, Brazer, Solderer, Structural Metal Fabricator and Fitter, Structural Steel Fitter, Sheet Metal Fabricator, Ironworker, Maintenance Welder, Spot Welder, Tack Welder, Welder-Fabricator, Weld Technician, Boilermaker, Ship fitter, Pipe fitter, Pipe Welder, Mining Equipment Welder, Oil and Gas Field Welder and Fitter, Metal Artist/Artists Assistant</a>	\$\$ - \$\$\$
AAS Degree	<a href="#">AAS Degree in Welding Technology</a>	61 Credits	\$7,618.90		\$\$ - \$\$\$

**Articulation Opportunities to Advanced Degrees:**

Advanced Degree(s)	<a href="#">Associate's to Bachelor's® Program at Regis University College for Professional Studies (CPS)</a>	<a href="#">Regis Tuition Information</a>	For more information about colleges that have these programs go to <a href="http://www.CollegeinColorado.org">www.CollegeinColorado.org</a>	\$\$-\$\$\$\$
	Bachelor's and Graduate Degrees in fields like Construction Management, Civil Engineering, Mechanical Engineering, Metallurgy (Associate Degree + 60 for BA/BS Degree & Bachelor's Degree + 2-4 years in Graduate School for MA)	<a href="#">Colorado Tuition Information</a>		
	<a href="#">College Tuition Comparison Guide</a>			

\* \$ = \$15-25,000; \$\$ = \$25-55,000; \$\$\$ = \$55-90,000; \$\$\$\$ = Above \$90,000

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## Extended Learning Experiences

### Student Services & Support Structures:

- [Academic Advising](#)
- [Academic Support Labs](#)
- [Admissions and Records](#)
- [Bookstores](#)
- [Career Counseling](#)
- [Crisis Counseling & Stress Management Services](#)
- [Disability Services](#)
- [English as a Second Language](#)
- [General Education Development \(GED\)](#)
- [Tutoring](#)
- [Libraries](#)
- [Student Email](#)
- [Student Employment Services](#)
- [Student Life](#)
- [Testing Center Services](#)
- [Veteran Services](#)

### Financial Aid:

- [FAFSA](#)
- [Grants](#)
- [Work Study](#)
- [Loans](#)
- [Scholarships](#)

### Professional Affiliations:

- [American Welding Society \(AWS\)](#)
- [National Certified Pipe Welding Bureau](#)

### Practical Learning Experiences:

- [Internships](#)
- [Career Preparation](#)
- [Service Learning/Volunteering](#)
- [Student Experiences](#)

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**Physical & Sensory Requirements, Welding Technology**

**Key:** N = Never O = Occasional: 1 – 33% of time F = Frequent: 34 – 75% of time C = Constant: 76 – 100% of time

PHYSICAL CAPABILITIES					SENSORY CAPABILITIES														
Activity	Frequency				Activity	Frequency				Activity	Frequency								
	N	O	F	C		N	O	F	C		N	O	F	C					
<b>Lift/Carry</b>					<b>Push/Pull</b>					<b>Walk</b>					<b>Able to see clearly at both near and far distances</b>				
10 lbs or less				X	15 lbs or less		X			<b>Sit</b>		X			<b>Able to identify and distinguish colors</b>			X	
11-20 lbs			X		16-30 lbs		X			<b>Stand</b>				X	<b>Able to judge distances and spatial relationships</b>				X
21-50 lbs		X			31-50 lbs		X			<b>Fine motor manipulations</b>				X	<b>Able to communicate verbally and in writing</b>				X
51-100 lbs	X				51-100 lbs	X				<b>Gripping</b>			X		<b>Able to distinguish between sounds such as telephone vs. fire alarms, tone of voice, varied decibels</b>		X		
100+ lbs										<b>Squat/Kneel</b>		X			<b>Able to perceive attributes of objects such as size, shape, temperature, texture through touch</b>				X
										<b>Bend</b>		X							
<b>Drive</b>					<b>Computer</b>					<b>Twist/Turn</b>			X						
<b>Manual</b>	X				<b>Data Entry</b>	X				<b>Crawl</b>	X								
<b>Automatic</b>	X				<b>Use of mouse</b>		X			<b>Climb</b>	X								
										<b>Reach above chest</b>				X					
										<b>Reach outward</b>				X					

For more information on the Physical & Sensory Requirements for this Pathway, please contact:

**Disability Support Services**

- [Boulder Campus](#): (303) 678 - 3922
- [Larimer Campus](#): (970) 204 - 8112
- [Westminster Campus & Brighton Center](#): (303) 404 - 5676

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