



Pathway: Welder, Cutters, and Welder fitters

Antonito

Plan of Study: Welder, Welder-Fitter, Fabricator, Maintenance Welder, Mig Welder, Sub Arc Operator

Career Goal (51-4121.06): Welder

Suggested High School Courses

Antonito High School * Default includes CDHE Higher Education Admission Requirements	9 th	Core Academic Courses*:	English I, US history, Geometry, Physical science, P.E. or Weight training, Ed-tech.	Suggested Electives: Business math, Metal art, Geography
		Career Path Courses:	Introduction to welding	
	10 th	Core Academic Courses*:	Algebra II, Lit. & comp., Spanish I, Southwest history, Biology, Info-Lit/Speech, Computer apps.I, P.E. or Weight training	Suggested Electives: Ed Tech, Metal art
		Career Path Courses:	Structural Welding I	
	11 th	Core Academic Courses*:	Algebra III or Physics, Advanced comp., Government, Spanish II, Humanities, Human anatomy or Chemistry,	Suggested Electives: Job shadow, Civics
		Career Path Courses:	Structural Welding II,	
	12 th	Core Academic Courses*:	Trigonometry or Calculus, AP English, AP Government, Computer apps. II	Suggested Electives: Physics
		Career Path Courses:	Apprenticeship, Articulated credit, Dual credit, Concurrent credit, Internship*	

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	Postsecondary Credit Options: Articulated credit, Dual credit, Concurrent credit *
	Industry Recognized Certificate(s) or License(s): American Welding Society (AWS)

Postsecondary Programs Available in Colorado

Colorado Institutions

Entrance Exams/ Requirements

Postsecondary Education Opportunities	Certificate	Welding, Apprenticeship Sheetmetal Worker, Machining Technology, Industrial Mechanics, Industrial Technologies, Manufacturing Technology, Industrial Maintenance Technologies	AVS: Emily Griffith Opportunity School, T.H. Pickens Technical College, San Juan Basin Technical College Community Colleges: Aims CC, CC of Aurora, CC of Denver, Front Range CC, Pikes Peak CC, Pueblo CC, Red Rocks CC, Western Colorado CC	High School diploma/GED
	Associate Degree	Welding Technology, Machining Technology, Industrial Technologies, Industrial Maintenance Technologies	Community Colleges: Aims, CC of Aurora, CC of Denver, Front Range CC, Pikes Peak CC, Pueblo CC, Red Rocks CC	High School diploma/GED
	Bachelor Degree	Civil, Electrical, Environmental & Mechanical Engineering, Industrial Engineering, Industrial Design, Mechanical Engineering, Electrical Engineering	For more information about colleges that have these programs go to www.CollegeinColorado.org	See each school's Admissions website.
	Graduate Degree	Engineering Management, MS; Industrial & Systems Engineering, MS; Mechanical Engineering, MS & PhD; Electrical Engineering, MS & PhD	For more information about colleges that have these programs go to www.CollegeinColorado.org	See each school's Admissions website.

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Career & Technical Education is delivered through the Colorado Community College System

www.ccs.edu



Cluster Overview: The **Manufacturing Career Cluster** prepares students in planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

Extended Learning Experiences

Curricular Experiences:

Examples:
SkillsUSA
Technology Student Association
American Welding Society (AWS)

Extracurricular Experiences:

Examples:
Science Club

Work-Based Learning Experiences:

Career Preparation – Paid and Unpaid, Job Shadowing, Internships

Program Accreditation and/or Professional Association(s):

Examples:
National Association of Manufacturers
National Tooling and Machining Association
Precision Metalforming Association
Robotic Industries Association
Society for Maintenance and Reliability Professionals

Service Learning Experiences:

Examples: Boy Scouts of America, Girl Scouts of the USA, Habitat for Humanity, Community Service Volunteer

Career Options:

Salary Range:

	Career Options:	Salary Range:
Certificate	Assemblers, Machine Operator, Welder	\$\$
Associate Degree	Maintenance Repairer, Industrial Electronic Installer, Electrician, BioMedical Equipment Technician, Pattern and Mold Makers, Sheet Metal Workers, Production Associates	\$\$ - \$\$\$
Bachelor Degree	Calibration Technician, Electromechanical Technician, Mechanical Engineer, Electrical Engineer	\$\$\$
Graduate Degree	Plant Manager, Mechanical Engineer, Electrical Engineer	\$\$\$ - \$\$\$\$

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