

Career Cluster: Manufacturing

Career Pathway: Manufacturing & Production

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Exploring Technology		
HIGH SCHOOL		
SUPPORTING COURSES: Suggested high s	school course that supports the Career Pathway	(Course DOES NOT count towards the Pathway)
Secondary Math 2		
EXPLORER COURSES : Choose one or mor	e of the following courses.	
Biomanufacturing 1	Composites 1 +	Plastics 1 +
Mechanical Design and Engineering 1 *	Manufacturing Principles 1	Woods 1 +
CAM Automated Manufacturing	Manufacturing Technology	
CONCENTRATOR COURSES: To be a cond	centrator you must pass one of the following cou	rses AND one explorer course.
Biomanufacturing 2	Manufacturing Principles 2	Woods 2
Composites 2	Plastics 2	
COMPLETER COURSES : To be a complete	r you must pass a concentrator course and enou	gh courses to equal 3.0 credits in this Pathway.
Woods 3		
CTE Internship	<u>Apprenticeship</u>	
POSTSECONDARY: There are many option	s for education and training beyond high school.	
Utah System of Higher Education: ushe.edu	UtahMajors.org: Majors Guide	

^{*} concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

There are several options for education and training beyond high school, depending on your career goals.



Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
> Production Technician	N/A	> CTE Teacher > Manufacturing Engineer

Career and Technical Education provides all students access to high-quality, rigorous career-focused programs that result in attainment of credentials with labor market value. Credentials of Value

Utah CTE classes are open to all qualified students without regard to race, color, national origin, sex, disability, or age.

Advice to Students

"I would definitely recommend taking CTE classes during high school. They teach multiple skills that you can use in life and give you many experiences that will allow you to have a head start in life."

Luke Asher Future Precision Machinist

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Manufacturing

UtahCTE.org: Fact Sheet

Department of Workforce Services
Utah Occupational Explorer

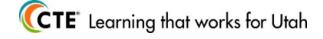
SkillsUSA | TSA

is the Career and Technical Student Organization (CTSO) for students in the Manufacturing & Production Career Pathway.

SkillsUSA.org | TSAweb.org
UtahSkillsUSA.org | UtahTSA.org
SkillsUSA Utah flyer | Utah TSA flyer







Utah Career and Technical Education Career Pathway Chart 2024-2025 School Year



Career Cluster: Manufacturing

Career Pathway: Welding & Machining

JUNIOR HIGH / MIDDLE SCHOOL						
College and Career Awareness						
Exploring Technology						
HIGH SCHOOL						
EXPLORER COURSES: Choose one or more of the following courses.						
Machining 1 *		Sheet Metal				
Metal Working 1		Welding Technician, Entry *				
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.						
Machining 2 *						
Welding Technician, Intermediate *						
COMPLETER COURSES : To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.						
Machining 3	Welding-Pipe Fitting		Welding Technician, Advanced *			
Non-Destructive Testing *	Welding-Structural Fitting					
CTE Internship		<u>Apprenticeship</u>				
POSTSECONDARY: There are many options for education and training beyond high school.						
Utah System of Higher Education: <u>ushe.edu</u> (Utah's public colleges and universities)			UtahMajors.org: Majors Guide			

^{*} concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

There are several options for education and training beyond high school, depending on your career goals.



Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
>Tool and Die Maker >Tool Maker > Welder	> Machine Tool Technician > Welding Technician	> CTE Teacher > Machine Tool Engineer > Welding Engineer

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Utah CTE classes are open to all qualified students without regard to race, color, national origin, sex, disability, or age.

Advice to Students

"CTE courses can help you decide what career you would like and provide necessary instruction and training that can help you be successful in the future. They teach real world skills that can transfer to many different careers."

Breanna Duvall Future Welde

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Manufacturing

UtahCTE.org: Fact Sheet

Department of Workforce Services
Utah Occupational Explorer

FFA | SkillsUSA

is the Career and Technical Student Organization (CTSO) for students in the Welding & Machining Career Pathway.

FFA.org | SkillsUSA.org
UtahFFA.org | UtahSkillsUSA.org
Utah FFA flyer | SkillsUSA Utah flyer





