Utah Career and Technical Education Career Pathway Chart

2023-2024 School Year



Career Cluster: Manufacturing

Career Pathway: Manufacturing & Production

JUNIOR HIGH / MIDDLE SCHOOL					
College and Career Awareness					
Exploring Technology					
HIGH SCHOOL					
SUPPORTING COURSES: Suggested high school course that supports the Career Pathway (Course DOES NOT count towards the Pathway)					
Secondary Math 2					
EXPLORER COURSES: Choose one or more of the following courses.					
Biomanufacturing 1	Composites 1 +	Plastics 1 +			
CAD Mechanical Design 1 *	Manufacturing Principles 1	Woods 1 +			
CAM Automated Manufacturing	Manufacturing Technology				
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.					
Biomanufacturing 2	Manufacturing Principles 2	Woods 2			
Composites 2	Plastics 2				
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway					
Woods 3					
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: <u>Majors Guide</u>					

^{*} 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.



1-2 Year	2-Year	4-Year
Certificate	Associate Degree	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.

Student Testimonial

"I would like a career as a manufacturing engineer and go on to pursue my own business in the manufacturing industry. CTE gave me experience for what my career will be like. CTE also [allowed me] to be able to work on the skills that I need to improve on in that specific area."

Garret Maycock Future Manufacturing Engineer

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Manufacturing

UtahCTE.org: Fact Sheet

Department of Workforce Services
Utah Occupational Explorer

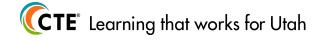
SkillsUSA | TSA

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 flyer | Utah TSA flyer







Utah Career and Technical Education Career Pathway Chart

2023-2024 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 Level *			
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.				
Machining 2 *				
Welding Technician, Intermediate Level *				
COMPLETER COURSES : To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.				
Non-Destructive Testing *	Welding-Pipe Fitting			
Welding-Structural Fitting	Welding Technician, Advanced Level *			
CTE Internship	Apprenticeship			
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: <u>Majors Guide</u>				

^{*} 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.



1-2 Year	2-Year	4-Year
Certificate	Associate Degree	Bachelor's Degree
>Tool and Die Maker >Tool Maker > Welder	> Machine Tool Technician > Welding Technician	> CTE Teacher > Machine Tool Engineer > Welding 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.

Student Testimonial

"I found a love for a career in my welding courses. These courses have shown me that I need to study heavily, work with my team, and be prepared for my future. CTE courses not only teach you skills that are highly useful but introduces you to industries that are in high demand for workers."

Marcus Duran Future Welder

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 flyer





