



**Career Cluster: Manufacturing**

**Career Pathway: Manufacturing & Production**

JUNIOR HIGH / MIDDLE SCHOOL			
<a href="#">College and Career Awareness</a>			
<a href="#">Exploring Technology</a>			
HIGH SCHOOL			
<b>SUPPORTING COURSES:</b> Suggested high school course that supports the Career Pathway (Course DOES NOT count towards the Pathway)			
Secondary Math 2			
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.			
<a href="#">CAD Mechanical Design 1</a> *	<a href="#">Composites 1</a> +	<a href="#">Plastics 1</a> +	<a href="#">Manufacturing Technology</a>
<a href="#">CAM Automated Manufacturing</a>	<a href="#">Manufacturing Principles 1</a>	<a href="#">Woods 1</a> +	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.			
<a href="#">Composites 2</a>			
<a href="#">Plastics 2</a>			
<a href="#">Woods 2</a>			
<b>COMPLETER COURSES:</b> To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.			
<a href="#">Woods 3</a>			
CTE Internship		<a href="#">Credentials of Value</a>	
POSTSECONDARY:			
Utah System of Higher Education: <a href="http://ushe.edu">ushe.edu</a> (Utah's public colleges and universities)		UtahMajors.org: <a href="#">Majors Guide</a>	

\* 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.			
	<b>1 2 Year Certificate</b> > Production Technician	<b>2 Year Associate Degree</b> N/A	<b>4 Year Bachelor's Degree</b> > CTE Teacher > Manufacturing Engineer

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  
 Tooele High School

**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](http://SkillsUSA.org) | [TSAweb.org](http://TSAweb.org)  
[UtahSkillsUSA.org](http://UtahSkillsUSA.org) | [UtahTSA.org](http://UtahTSA.org)  
[SkillsUSA flyer](#) | [Utah TSA flyer](#)





**Career Cluster: Manufacturing**


**Career Pathway: Welding & Machining**

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

\* 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 Certificate	2 Year Associate Degree	4 Year Bachelor's Degree
		> Tool and Die Maker > Tool Maker > Welder	> Machine Tool Technician > Welding Technician

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

**Student Testimonial**

“The welding and agricultural classes [I took in high school] gave me the needed skills to be successful in my career and in all aspects of life.”

Erica McPherson  
 Delta High School

**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](https://FFA.org) | [SkillsUSA.org](https://SkillsUSA.org)  
[UtahFFA.org](https://UtahFFA.org) | [UtahSkillsUSA.org](https://UtahSkillsUSA.org)  
[Utah FFA flyer](#) | [SkillsUSA flyer](#)

