



**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> *	Composites 1 +	Plastics 1 +	<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.			
Composites 2			
Plastics 2			
Woods 2			
<b>COMPLETER COURSES:</b> To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.			
Woods 3			
CTE Internship			
POSTSECONDARY:			
Utah System of Higher Education: <a href="http://ushe.edu">ushe.edu</a>   UtahMajors.org: <a href="#">Utah Majors Guide</a>			
Utah System of Technical Colleges: <a href="http://utech.edu">utech.edu</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-Year Certificate</b> > Production Technician	<b>2-Year Assoc. or Tech. 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](#)

UtahFutures.org: [Occupation/Wage Search](#)

**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 enough courses to earn 3.0 credits in this Pathway.		
American Welding Society Level 1 Welder	Welding-Pipe Fitting	<a href="#">Welding Technician, Advanced Level</a> *
<a href="#">Non-Destructive Testing</a> *	Welding-Structural Fitting	
CTE Internship		
POSTSECONDARY:		
Utah System of Higher Education: <a href="http://ushe.edu">ushe.edu</a>   UtahMajors.org: <a href="#">Utah Majors Guide</a>		
Utah System of Technical Colleges: <a href="http://utech.edu">utech.edu</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-Year Certificate	2-Year Assoc. or Tech. 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](#)

UtahFutures.org: [Occupation/Wage Search](#)

### FFA | SkillsUSA

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

[FFA.org](http://FFA.org) | [SkillsUSA.org](http://SkillsUSA.org)

[UtahFFA.org](http://UtahFFA.org) | [UtahSkillsUSA.org](http://UtahSkillsUSA.org)

[Utah FFA flyer](#) | [SkillsUSA flyer](#)

