




Career Cluster: Advanced Manufacturing & Engineering

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		Apprenticeship
POSTSECONDARY: There are many options for education and training beyond high school.		
Utah System of Higher Education: ushe.edu (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

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

“**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

Advanced Manufacturing & Engineering

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](#)

