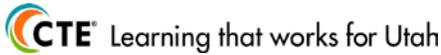


# Utah Career and Technical Education Career Pathway

## 2018-2019 School Year



**CTSO Information**  
 Career and Technical Student Organizations (CTSO) align with the national Career Clusters® and the Utah CTE Career Pathways.  
 Students who participate in the Welding Career Pathway choose among the following CTOS, depending upon what is available at their school:  
 FFA | SkillsUSA

**Workforce Trends**  
 In Utah, the occupation projection for welders, cutters, solderers, and brazers is 290 annual openings. Job prospects should be excellent for skilled candidates.

### Career Cluster: Manufacturing

#### Career Pathway: Welding

CORE CODE	FOUNDATION COURSES (required)	CREDITS	
40.10.00.00.110	Welding Technician, Entry Level *	.50	1.00 credit
40.10.00.00.112	Welding Technician, Intermediate Level *	.50	
ELECTIVE COURSES			
32.02.00.00.010	Accounting 1	.50	2.00 credits
32.02.00.00.140	Business Management	.50	
38.01.00.00.051	CAD Mechanical Design 1 *	.50	
38.01.00.00.052	CAD Mechanical Design 2	.50	
38.01.00.00.021	Electronics 1 *	.50	
32.02.00.00.220	Entrepreneurship	.50	
40.10.00.00.072	Machining 1 *	.50	
40.10.00.00.070	Machining 2 *	.50	
38.01.00.00.340	PLTW Computer Integrated Manufacturing	1.00	
38.01.00.00.390	PLTW Engineering Design and Development	1.00	
40.10.00.00.114	Welding Technician, Advanced Level *	1.00	
41.00.00.00.030	Workplace Skills	.50	
<b>3.00 credits for completion</b>			

\* Course can be taken up to 1.00 credit.

**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.**

**Welding is:**  
 > High skill  
 > High demand

**Sample Occupations Requiring:**  
High School Diploma  
 > Welder, Cutter, Solderer, and Brazer  
 > Welder and Solderer Machine Operator

Certificate  
 > Welder

Assoc. or Technical Degree  
 > N/A

Baccalaureate Degree  
 > Career and Technical Education Teacher

Graduate or Prof. Degree  
 > N/A

**Student Testimonial**  
 "I took my first welding class in my sophomore year of high school and fell in love with it. Welding prepared me for college and my career by showing me I will have to continue on without giving up to reach my goals."  
 Fillmore Tukuafu

### HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

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

<b>12th Grade</b>	<b>1-Year Certificate</b>	<b>2-Year Associate or Technical Degree</b>	<b>4-Year Bachelor's Degree</b>	<b>More Graduate or Prof. Degree</b>
Certificates are awarded upon the successful completion of a brief course of study, usually one year or less. Upon completion of a course of study, a certificate does not require any further action to retain. In high school a variety of certificates can be earned.		An academic degree is an award for the completion of a program or course of study over multiple years at postsecondary education institutions.  In 2015-2016, 73 percent of secondary students who concentrated in a CTE Career Pathway placed in postsecondary education, advanced training, military service or employment (October 1-December 31).		

**Utah Business and Industry Facts**  
 From construction sites to automotive body shops, from farms to manufacturing plants, welders are found in numerous industries throughout Utah.  
 According to the Utah Department of Workforce Services, the median hourly wage for a welders, cutters, solderers and brazers is \$18.64.

**CTE Skill Certificates**  
 Competency-based student assessments, measured by core standards and competencies needed to be successful in the workforce.  
 In 2016-2017, 105,691 CTE skill certificates were awarded to high school students. Students' knowledge and performance is demonstrated as part of the Skill Certificate process.

**UtahFutures: College and Career Planning**  
 Visit [UtahFutures.org](http://UtahFutures.org) for salary projections, labor market demand, and training options.  
 In 2016-2017, the graduation rate for students who concentrated in a CTE Career Pathway was 95 percent, compared to Utah's statewide graduation rate of 86 percent.