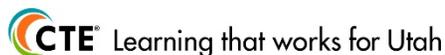


# Utah Career and Technical Education Career Pathway

## 2019-2020 School Year



**CTSO Information**  
 Career and Technical Student Organizations (CTSO) align with the national Career Clusters® and the Utah CTE Career Pathways.

SkillsUSA is the CTSSO for students in the Plumbing Career Pathway. SkillsUSA provides quality education experiences for students in leadership, teamwork, citizenship, and character development.

**Workforce Trends**  
 Demand for plumbers will stem from new construction and renovation, repair and maintenance of existing buildings.

### Career Cluster: Architecture & Construction

#### Career Pathway: Construction & Structural Systems: Plumbing

CORE CODE	FOUNDATION COURSES (required)	CREDITS	
40.08.00.00.100	<a href="#">Plumbing 1</a>	1.00	2.00 credits
40.08.00.00.105	<a href="#">Plumbing 2</a>	1.00	
ELECTIVE COURSES			
38.01.00.00.041	<a href="#">CAD Architectural Design 1</a> *	.50	1.00 credit
38.01.00.00.042	<a href="#">CAD Architectural Design 2</a> *	.50	
38.01.00.00.051	<a href="#">CAD Mechanical Design 1</a> *	.50	
40.08.00.00.010	<a href="#">Carpentry 1</a>	1.00	
40.08.00.00.035	<a href="#">Construction Trades Foundation</a>	.50	
40.08.00.00.050	<a href="#">Electrician 1</a>	1.00	
38.01.00.00.021	<a href="#">Electronics 1</a> *	.50	
41.00.00.00.050	<a href="#">CTE Internship</a>	.50	
41.00.00.00.030	<a href="#">Workplace Skills</a>	.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.**

**Plumbing is:**

- > High-skill
- > High-wage
- > In-demand

**Sample Occupations Requiring:**

**High School Diploma**

- > Plumber/Pipefitter Helper
- > Steamfitter

**Certificate**

- > Pipefitter (Journey Level)
- > Plumber (Journey Level)

**Assoc. or Technical Degree**

- > N/A

**Baccalaureate Degree**

- > Career and Technical Education Teacher

**Graduate or Prof. Degree**

- > N/A

**Student Testimonial**

“The way I figured out the career path I wanted to take was back in 7th grade. I had a CTE class and learned that I liked to work with my hands. I decided to take a plumbing class. I learned that plumbing is not just about fixing clogged drains and toilets and putting in appliances, but also working on the drainage systems for a house. I plan to go to college for this trade.”

Cameron Cheney

### 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.

12th Grade	1-Year Certificate	2-Year Associate or Technical Degree	4-Year Bachelor's Degree	More Graduate or Prof. Degree
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 2016-2017, 74 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**

According to the Utah Department of Workforce Services, workers with knowledge of Building Information Modeling (BIM) should have the best job opportunities, as integrated building-planning abilities increase in demand.

In Utah, a plumber, pipefitter, and steamfitter must be licensed.

**UtahFutures: College and Career Planning**

Visit [UtahFutures.org](http://UtahFutures.org) to explore occupations, search salary projections, access labor market information, investigate training options, and to create a plan.

Visit [UtahCTE.org](http://UtahCTE.org) to access high-quality, rigorous career-focused programs that result in attainment of credentials with labor market value.

**CTE Credentials of Value**

In 2017-2018, 112,867 CTE Skill Certifications were awarded to secondary students and 19,189 third-party certifications were earned by secondary students.

In 2017-2018, the graduation rate for students who concentrated in a CTE Career Pathway was 95 percent, compared to Utah's statewide graduation rate of 87 percent.