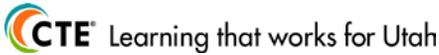


Utah Career and Technical Education Career Pathway

2017-2018 School Year



<p>CTSO Information Career and Technical Student Organizations (CTSO) align with the national Career Clusters® and the Utah CTE Career Pathways.</p> <p>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.</p> <p>Workforce Trends Demand for plumbers will stem from new construction and renovation, repair and maintenance of existing buildings.</p>	<h3 style="margin: 0;">Career Cluster: Architecture & Construction</h3> <h3 style="margin: 0;">Career Pathway: Plumbing</h3> <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr style="background-color: #009999; color: white;"> <th style="width: 15%;">CORE CODE</th> <th style="width: 55%;">FOUNDATION COURSES (required)</th> <th style="width: 15%;">CREDITS</th> <th style="width: 15%;"></th> </tr> </thead> <tbody> <tr> <td>40.08.00.00.100</td> <td>Plumbing 1</td> <td>1.00</td> <td rowspan="2" style="text-align: center; vertical-align: middle;">2.00 credits</td> </tr> <tr> <td>40.08.00.00.105</td> <td>Plumbing 2</td> <td>1.00</td> </tr> <tr style="background-color: #009999; color: white;"> <th colspan="4" style="text-align: center;">ELECTIVE COURSES</th> </tr> <tr> <td>38.01.00.00.041</td> <td>CAD Architectural Design 1 *</td> <td>.50</td> <td rowspan="10" style="text-align: center; vertical-align: middle;">1.00 credit</td> </tr> <tr> <td>38.01.00.00.042</td> <td>CAD Architectural Design 2 *</td> <td>.50</td> </tr> <tr> <td>38.01.00.00.051</td> <td>CAD Mechanical Design 1 *</td> <td>.50</td> </tr> <tr> <td>40.08.00.00.010</td> <td>Carpentry 1</td> <td>1.00</td> </tr> <tr> <td>40.08.00.00.035</td> <td>Construction Trades Foundation</td> <td>.50</td> </tr> <tr> <td>40.08.00.00.050</td> <td>Electrician 1</td> <td>1.00</td> </tr> <tr> <td>38.01.00.00.021</td> <td>Electronics 1 *</td> <td>.50</td> </tr> <tr> <td>40.09.00.00.050</td> <td>Heating/Air Conditioning/Refrigeration (HVACR)</td> <td>1.00</td> </tr> <tr> <td>41.00.00.00.030</td> <td>Workplace Skills</td> <td>.50</td> </tr> <tr> <td colspan="3" style="text-align: right;">3.00 credits for completion</td> <td></td> </tr> </tbody> </table> <p style="font-size: small;">* Course can be taken up to 1.00 credit.</p> <p style="text-align: center; font-weight: bold; font-size: small;">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.</p>	CORE CODE	FOUNDATION COURSES (required)	CREDITS		40.08.00.00.100	Plumbing 1	1.00	2.00 credits	40.08.00.00.105	Plumbing 2	1.00	ELECTIVE COURSES				38.01.00.00.041	CAD Architectural Design 1 *	.50	1.00 credit	38.01.00.00.042	CAD Architectural Design 2 *	.50	38.01.00.00.051	CAD Mechanical Design 1 *	.50	40.08.00.00.010	Carpentry 1	1.00	40.08.00.00.035	Construction Trades Foundation	.50	40.08.00.00.050	Electrician 1	1.00	38.01.00.00.021	Electronics 1 *	.50	40.09.00.00.050	Heating/Air Conditioning/Refrigeration (HVACR)	1.00	41.00.00.00.030	Workplace Skills	.50	3.00 credits for completion				<p>Plumbing is: > High skill > High wage > High demand</p> <p>Sample Occupations Requiring: <u>High School Diploma</u> > Plumber/Pipefitter Helper > Steamfitter</p> <p><u>Certificate</u> > Pipefitter (Journey Level) > Plumber (Journey Level)</p> <p><u>Assoc. or Technical Degree</u> > N/A</p> <p><u>Baccalaureate Degree</u> > Career and Technical Education Teacher</p> <p><u>Graduate or Prof. Degree</u> > N/A</p>
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<p>Student Testimonial</p> <p>“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.”</p> <p style="text-align: right; font-size: small;">Cameron Cheney</p>	<h3 style="margin: 0;">HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING</h3> <p style="margin: 0; color: white; font-size: small;">There are a number of options for education and training beyond high school, depending on your career goals.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <tr> <td style="width: 15%; background-color: #009999; color: white; text-align: center; padding: 5px;">12th Grade</td> <td style="width: 15%; background-color: #ff9933; color: white; text-align: center; padding: 5px;">1-Year Certificate</td> <td style="width: 15%; background-color: #99cc33; color: white; text-align: center; padding: 5px;">2-Year Associate or Technical Degree</td> <td style="width: 15%; background-color: #ffcc00; color: white; text-align: center; padding: 5px;">4-Year Bachelor’s Degree</td> <td style="width: 15%; background-color: #999999; color: white; text-align: center; padding: 5px;">More Graduate or Prof. Degree</td> </tr> </table> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%; font-size: small;"> <p>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.</p> <p>In high school a variety of certificates can be earned.</p> </div> <div style="width: 65%; font-size: small;"> <p>An academic degree is an award for the completion of a program or course of study over multiple years at postsecondary education institutions.</p> <p>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).</p> </div> </div>	12th Grade	1-Year Certificate	2-Year Associate or Technical Degree	4-Year Bachelor’s Degree	More Graduate or Prof. Degree	<p>Utah Business and Industry Facts</p> <p>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.</p> <p>In Utah, a plumber, pipefitter, and steamfitter must be licensed.</p>																																										
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<p style="text-align: center; color: #009999; font-weight: bold; font-size: small;">CTE Skill Certificates</p> <p style="font-size: small;">Competency-based student assessments, measured by core standards and competencies needed to be successful in the workforce.</p>	<p style="font-weight: bold; font-size: small;">UtahFutures: College and Career Planning</p> <p style="font-size: small;">Visit UtahFutures.org for salary projections, labor market demand, and training options.</p>	<p style="font-size: small;">In 2014-2015, 96,190 CTE skill certificates were awarded to high school students. Students’ knowledge and performance is demonstrated as part of the Skill Certificate process.</p>																																															
<p style="font-size: small;">In 2014-2015, 96,190 CTE skill certificates were awarded to high school students. Students’ knowledge and performance is demonstrated as part of the Skill Certificate process.</p>	<p style="font-size: small;">In 2015-2016, the graduation rate for students who concentrated in a CTE Career Pathway was 96.6 percent, compared to Utah’s statewide graduation rate of 85 percent.</p>																																																