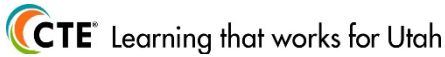


Utah Career and Technical Education Career Pathway

2019-2020 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>Students who participate in the Aerospace Manufacturing Career Pathway choose among the following CTOS, depending upon what is available at their school: SkillsUSA TSA</p> <p>Workforce Trends Aerospace operations technicians work on many projects related to national defense and therefore require security clearances. In Utah, this occupation is expected to experience much faster than average employment growth.</p>	<h3 style="margin: 0;">Career Cluster: Manufacturing</h3> <h4 style="margin: 0;">Career Pathway: Aerospace Manufacturing</h4> <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr style="background-color: #009999; color: white;"> <th style="padding: 5px;">CORE CODE</th> <th style="padding: 5px;">FOUNDATION COURSES (required)</th> <th style="padding: 5px;">CREDITS</th> <th style="padding: 5px;"></th> </tr> </thead> <tbody> <tr> <td style="padding: 2px 5px;">40.10.00.00.140</td> <td style="padding: 2px 5px;">Composites 1</td> <td style="padding: 2px 5px;">.50</td> <td rowspan="6" style="text-align: center; vertical-align: middle; padding: 5px;">3.00 credits</td> </tr> <tr> <td style="padding: 2px 5px;">38.01.00.00.011</td> <td style="padding: 2px 5px;">Manufacturing Principles 1</td> <td style="padding: 2px 5px;">.50</td> </tr> <tr> <td colspan="3" style="padding: 2px 5px; text-align: center;"><i>Or choose one the following courses:</i></td> </tr> <tr> <td style="padding: 2px 5px;">40.10.00.00.085</td> <td style="padding: 2px 5px;">Metalworking 1 *</td> <td style="padding: 2px 5px;">.50</td> </tr> <tr> <td style="padding: 2px 5px;">41.00.00.00.020</td> <td style="padding: 2px 5px;">Apprenticeship</td> <td style="padding: 2px 5px;">.50</td> </tr> <tr> <td style="padding: 2px 5px;">41.00.00.00.050</td> <td style="padding: 2px 5px;">CTE Internship</td> <td style="padding: 2px 5px;">.50</td> </tr> <tr> <td style="padding: 2px 5px;">41.00.00.00.030</td> <td style="padding: 2px 5px;">Workplace Skills</td> <td style="padding: 2px 5px;">.50</td> <td></td> </tr> <tr> <td colspan="4" style="padding: 5px; text-align: center;">3.00 credits for completion</td> </tr> </tbody> </table> <p style="font-size: small; margin-top: 5px;">* Course can be taken up to 1.00 credit.</p> <p style="margin-top: 10px;">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		40.10.00.00.140	Composites 1	.50	3.00 credits	38.01.00.00.011	Manufacturing Principles 1	.50	<i>Or choose one the following courses:</i>			40.10.00.00.085	Metalworking 1 *	.50	41.00.00.00.020	Apprenticeship	.50	41.00.00.00.050	CTE Internship	.50	41.00.00.00.030	Workplace Skills	.50		3.00 credits for completion				<p>Aerospace Manufacturing is: > High skill > High wage</p> <p>Sample Occupations Requiring: <u>High School Diploma</u> > Assembler/Fabricator > Welder <u>Certificate</u> > N/A <u>Assoc. or Technical Degree</u> > Aerospace Engineering and Operations Technician > Engineering Technician > Industrial Engineering Technician > Mechanical Drafter <u>Baccalaureate Degree</u> > Aerospace Engineer > Career and Technical Education Teacher > Materials Engineer > Mechanical Engineer <u>Graduate or Prof. Degree</u> > Aeronautical Engineer > Astronautical Engineer</p>
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<p>Student Testimonial "My long-term occupation and educational goal is to get a job working in the aerospace industry making composites. I appreciate the opportunity I have had to pursue CTE classes, both in high school and in the composites program at MATC. I feel like I have a head start on my future career. I feel that through taking CTE classes I was able to find a plan that will work for me." Jacob Michael Argyle</p>	<h3 style="margin: 0;">HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING</h3> <p style="margin: 0;">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="background-color: #009999; color: white; text-align: center; padding: 10px;">12th Grade</td> <td style="background-color: #ff9900; color: white; text-align: center; padding: 10px;">1-Year Certificate</td> <td style="background-color: #99cc33; color: white; text-align: center; padding: 10px;">2-Year Associate or Technical Degree</td> <td style="background-color: #ffcc00; color: white; text-align: center; padding: 10px;">4-Year Bachelor's Degree</td> <td style="background-color: #999999; color: white; text-align: center; padding: 10px;">More Graduate or Prof. Degree</td> </tr> </table> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%; padding: 5px;"> <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: 45%; padding: 5px;"> <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 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).</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 Aerospace and aviation companies located in Utah employ more than 42,000 workers.</p> <p>Utah high school seniors have the opportunity to participate in the Utah Aerospace Pathways program. The program was created by industry to open opportunities for young men and women who are interested in the aerospace.</p>																										
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<p style="text-align: center;">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="text-align: center;">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: x-small;">In 2017-2018, 111,238 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: x-small;">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.</p>																																