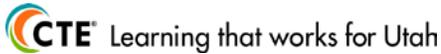


Utah Career and Technical Education Career Pathway

2017-2018 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 CTSO for students in the HVACR Career Pathway. SkillsUSA provides quality education experiences for students in leadership, teamwork, citizenship, and character development.

Workforce Trends
 Advances in computer technology have revolutionized the way we monitor and control the engineering systems in buildings.

Career Cluster: Architecture & Construction

Career Pathway: HVACR

CORE CODE	FOUNDATION COURSES (required)	CREDITS	
40.09.00.00.050	Heating/Air Conditioning/Refrigeration (HVACR)	1.00	1.00 credit
ELECTIVE COURSES			
38.01.00.00.041	CAD Architectural Design 1 *	.50	2.00 credits
38.01.00.00.042	CAD Architectural Design 2 *	.50	
38.01.00.00.051	CAD Mechanical Design 1 *	.50	
40.08.00.00.035	Construction Trades Foundation	.50	
38.01.00.00.021	Electronics 1 *	.50	
40.10.00.00.085	Metalworking 1 *	.50	
40.10.00.00.090	Sheet Metal *	.50	
41.00.00.00.030	Workplace Skills	.50	
3.00 credits for completion			

* 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.

HVACR is:
 > High skill
 > High wage
 > High demand

Sample Occupations Requiring:
High School Diploma
 > HVACR Helper

Certificate
 > Heating, Air Conditioning, and Refrigeration Mechanics and Installer and Technician
 > Heating and Cooling System Mechanic

Assoc. or Technical Degree
 > N/A

Baccalaureate Degree
 > Career and Technical Education Teacher

Graduate or Prof. Degree
 > N/A

Student Testimonial
 "The CTE courses I took in high school helped me to gain a broad understanding of all aspects of the building trades. These courses helped me in my career decisions by allowing me the opportunity to try many different trades. All of the skills I learned made it so that I will be able to walk into a job as a skilled employee instead of a trainee."
 Eric Stokes

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 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
 According to the Utah Department of Workforce Services, the job outlook for HVACR mechanics and installers is projected to experience faster than average employment growth, with a high volume of annual job openings.
 In Utah, an HVACR mechanic/installer must be licensed.

CTE Skill Certificates
 Competency-based student assessments, measured by core standards and competencies needed to be successful in the workforce.

UtahFutures: College and Career Planning
 Visit UtahFutures.org for salary projections, labor market demand, and training options.

In 2015-2016, 96,190 CTE skill certificates were awarded to high school students. Students' knowledge and performance is demonstrated as part of the Skill Certificate process.

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.