

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 Heavy Duty Diesel Career Pathway. SkillsUSA provides quality education experiences for students in leadership, teamwork, citizenship, and character development.

Workforce Trends
Employment growth will result from the increased manufacturing of buses and trucks powered by durable, economical diesel engines. Opportunities are good for those with formal diesel mechanic training and experience with electronic and diagnostic equipment.

Career Cluster: Transportation, Distribution & Logistics

Career Pathway: Heavy Duty Diesel

CORE CODE	FOUNDATION COURSES (required)	CREDITS	
40.09.00.00.060	Diesel Technician *	.50	1.00 credit
40.09.00.00.065	Medium/Heavy Vehicle Systems *	.50	
ELECTIVE COURSES			
32.02.00.00.010	Accounting 1	.50	2.00 credits
40.09.00.00.022	ASE Brakes *	.50	
40.09.00.00.021	ASE Chassis MLR *	.50	
40.09.00.00.024	ASE Electrical/Electronics *	.50	
40.09.00.00.026	ASE Engine MLR *	.50	
40.09.00.00.025	ASE Engine Performance *	.50	
40.09.00.00.023	ASE Steering and Suspension *	.50	
40.09.00.00.005	Basic Automotive Collision Repair *	.50	
32.02.00.00.140	Business Management	.50	
38.01.00.00.021	Electronics 1 *	.50	
38.01.00.00.022	Electronics 2	.50	
32.02.00.00.220	Entrepreneurship	.50	
38.01.00.00.320	PLTW Digital Electronics	1.00	
41.00.00.00.030	Workplace Skills	.50	
3.00 credits for completion			

* Course can be taken up to 1.00 credit.
Foundation courses taken beyond the required credits can be used as elective 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.

Heavy Duty Diesel is:
> High skill
> High wage
> High demand

Sample Occupations Requiring:
High School Diploma
> Bus and Truck Mechanic
> Diesel Engine Specialist
> Mobile Heavy Equipment Mechanic

Certificate
> Automotive Service Technician – ASE (Automotive Service Excellence) www.ase.com/ is a national certification for automotive service technicians.

Assoc. or Technical Degree
> N/A

Baccalaureate Degree
> Career and Technical Education Teacher

Graduate or Prof. Degree
> N/A

Student Testimonial
"I completed a CTE Internship at a local garage in my community. Because of the courses I have taken, the safety certifications I have earned, and my internship, Jiffy Lube hired me on the spot. The CTE Pathways program helped me learn to set goals and make wise choices. CTE courses gave me real-life, marketable skills."
Trevor Gardner

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
<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>		<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>		

Utah Business and Industry Facts
Utah high school seniors have the opportunity to participate in the [Utah Diesel Technician Pathways program](#). The program was created by industry to open opportunities for young men and women who are interested in the diesel technician field.

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.