

Transportation, Distribution, and Logistics Career Cluster

The Transportation, Distribution, and Logistics career cluster focuses on planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water. It also includes transportation infrastructure planning and management, logistics services, and mobile equipment and facility maintenance. This career cluster includes occupations ranging from automotive mechanic, avionics technician, and automotive entrepreneur to pilots and logistics planning professionals.

Statewide Program of Study: Automotive and Collision Repair

The Automotive and Collision Repair program of study focuses on the occupational and educational opportunities associated with servicing, repairing, and refinishing various types of vehicles. This program of study includes diagnosing and servicing vehicles and learning about processes, technologies, and materials used in reconstructing vehicles.

Secondary Courses for High School Credit

| | Level 1 | | |
|--|---------|---|--|
| | Level 2 | • | Automotive Basics |
| | Level 3 | • | Automotive Technology I: Maintenance and Light Repair |
| | Level 4 | • | Automotive Technology II: Automotive Service Extended Career Prep for Programs of Study |



Example Postsecondary Opportunities

Apprenticeships

Automotive Technician Apprenticeship

Associate Degrees

- Automobile/Automotive Mechanics Technology
- Autobody/Collision and Repair Technology

Bachelor's Degrees

- Autobody/Collision and Repair Technology
- Heavy Equipment Maintenance Technology

Additional Stackable IBCs/License

Automobile and Light Truck Certification (A1 – A9)



Example Aligned Occupations

Automotive Service **Technicians and Mechanics**

Median Wage: \$44,809 Annual Openings: 6,285 10-Year Growth: 10%

Bus and Truck Mechanics and Diesel Engine Specialists

Median Wage: \$50,967 Annual Openings: 3,096 10-Year Growth: 19%

First-Line Supervisors of Mechanics, Installers, and Repairers

Median Wage: \$66,535 Annual Openings: 5,019 10-Year Growth: 19%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.



For more information visit: https://tea.texas.gov/academics/college-career-and-militaryprep/career-and-technical-education/programs-of-study**Automotive and Collision Repair**

Aligned Advanced Academic Courses

Dual credit offerings will vary by local education agency. Dual Credit

Students who earn all of the college credits in this program of study will be eligible to graduate from Southwest Texas Junior College with a Level I certificate in Automotive Technology.

Work-Based Learning and Expanded Learning Opportunities

with vehicle maintenance

Work-Based Learning Activities

Expanded Learning Opportunities

events Participate in SkillsUSA

Aligned Industry-Based Certifications

- ASE Entry Level Automobile Maintenance and Light Repair (MR) ASE Entry-Level Automobile Automatic Transmission/Transaxle (AT)
- ASE Entry-Level Automobile Brakes (BR)
- ASE Entry-Level Automobile Electronic/Electrical Systems (EE)
- ASE Entry-Level Automobile Engine Performance (EP) ASE Entry-Level Automobile Engine Repair (ER)
- ASE Entry-Level Automobile Heating and Air Conditioning (AC)
- ASE Entry-Level Automobile Manual Drive Train and Axles (MD)
- ASE Entry-Level Automobile Service Technology ASE Entry-Level Automobile Suspension and Steering (SS)

 - ASE Entry-Level Collision Mechanical and Electrical Components (ME) ASE Entry-Level Collision Non-Structural Analysis and Damage Repair (SR)
 - ASE Entry-Level Collision Painting and Refinishing (PR) ASE Entry-Level Collision Structural Analysis and Damage Repain
- ASE Refrigerant Recovery and Recycling



Successful completion of the Automotive and Collision Repair program of study will fulfill requirements of the Business and Industry endorsement.

Shadow an automotive technician at a car dealership Intern at a rental car company and assist technicians

Work at a local automotive repair shop and hold both

customer service duties and automatic repair duties Join a related automotive association and attend

| COURSE INFORMATION | | | | | | |
|---|--|---|-------|--|--|--|
| COURSE NAME | COURSE NUMBER AND CREDITS | PREREQUISITES (PREQ) COREQUISITES (CREQ) | GRADE | | | |
| Automotive Basics | 8720 (1 credit) | admission criteria in the student handbook | 10 | | | |
| Automotive Technology I Dual Credit | 8721D1 and 8721D2 (2 credits) | Auto Basics and SWTX requirements | 11 | | | |
| Automotive Technology II Dual Credit | 8722D1 and 8722D2 (2 credits) | Automotive Technology I and SWTX requirements | 12 | | | |
| Extended Career Prep for Programs of Study Reg or DC | 8607 (3 credits) or 8607DC & D2 (3 credits) | Automotive Basics DC: pre-req & SWTX reqs. | 12 | | | |

COURSE DESCRIPTIONS

Automotive Basics:

Students gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws and regulations, and common practices used in the logistics of warehousing and transportation systems. Students will gain basic knowledge of modes of transportation including air, rail, roads, water, cable, pipeline, and space. Safety regulations will be explored through OSHA.

Automotive Technology I Dual Credit:

Students will be given hands-on activities ranging from simple automotive maintenance to using automotive software and equipment in order to understand the inner working of vehicles. Students will get real world experience in the automotive field.

Automotive Technology II Dual Credit:

Students gain advanced knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. Students will visit dealerships in San Antonio and will ask questions to see real life work in progress. Students will work toward earning certification in one or more areas.

Extended Career Prep for Programs of Study Reg or DC:

Students are given the opportunity to work in their program of study while earning high school credit and develop employment experiences, which must be related to the student's current program of study alongside advanced classroom instruction. The goal is to prepare students with a variety of skills to transition from job- to career-mindedness. This course provides a continuing focus on collaborative feedback between the employer, teacher, and student. Students are taught about finding their future careers, keeping, as well as leaving, a job, and how to expound on their employable talents.

Courses in yellow are Level 3 or 4 courses.

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College Credits: AUMT 1416, 1445, & 2434

College Credit: BMGT 1382





College Credits: AUMT 1407, 1410, & 2417