



# 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



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| <b>Level 1</b> | <ul style="list-style-type: none"> <li>Principles of Transportation Systems</li> <li>Basic Collision Repair and Refinishing</li> <li>Introduction to Small Engine Technology</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Level 2</b> | <ul style="list-style-type: none"> <li>Introduction to Transportation Technology</li> <li>Small Engine Technology</li> <li>Occupational Safety and Environmental Technology I</li> <li>Automotive Basics</li> <li>Collision Repair</li> <li>Collision Repair + Advanced Transportation Systems Laboratory</li> <li>Entrepreneurship I</li> </ul>                                                                                                                                                                                                                                                    |
| <b>Level 3</b> | <ul style="list-style-type: none"> <li>Energy and Power of Transportation Systems</li> <li>Automotive Technology I: Maintenance and Light Repair</li> <li>Paint and Refinishing</li> <li>Paint and Refinishing + Advanced Transportation Systems Laboratory</li> </ul>                                                                                                                                                                                                                                                                                                                              |
| <b>Level 4</b> | <ul style="list-style-type: none"> <li>Automotive Technology II: Automotive Service</li> <li>Automotive Technology II: Automotive Service + Advanced Transportation Systems Laboratory</li> <li>Practicum in Transportation Systems</li> <li>Practicum in Transportation Systems + Extended Practicum in Transportation Systems</li> <li>Practicum in Entrepreneurship</li> <li>Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship</li> <li>Career Preparation for Programs of Study</li> <li>Career Preparation for Programs of Study + Extended Career Preparation</li> </ul> |

### Work-Based Learning and Expanded Learning Opportunities

#### Work-Based Learning Activities

- Shadow an automotive technician at a car dealership
- Intern at a rental car company and assist technicians with vehicle maintenance
- Work at a local automotive repair shop and hold both customer service duties and automatic repair duties

#### Expanded Learning Opportunities

- Join a related automotive association and attend events
- Participate in SkillsUSA

### Aligned Industry-Based Certifications

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| <ul style="list-style-type: none"> <li>ASE Entry Level Automobile Maintenance and Light Repair (MR)</li> <li>ASE Entry-Level Automobile Automatic Transmission/Transaxle (AT)</li> <li>ASE Entry-Level Automobile Brakes (BR)</li> <li>ASE Entry-Level Automobile Electronic/Electrical Systems (EE)</li> <li>ASE Entry-Level Automobile Engine Performance (EP)</li> <li>ASE Entry-Level Automobile Engine Repair (ER)</li> <li>ASE Entry-Level Automobile Heating and Air Conditioning (AC)</li> <li>ASE Entry-Level Automobile Manual Drive Train and Axles (MD)</li> <li>ASE Entry-Level Automobile Service Technology</li> <li>ASE Entry-Level Automobile Suspension and Steering (SS)</li> <li>ASE Entry-Level Collision Mechanical and Electrical Components (ME)</li> <li>ASE Entry-Level Collision Non-Structural Analysis and Damage Repair (SR)</li> </ul> | <ul style="list-style-type: none"> <li>ASE Entry-Level Collision Painting and Refinishing (PR)</li> <li>ASE Entry-Level Collision Repair and Refinish Fundamentals</li> <li>ASE Entry-Level Collision Structural Analysis and Damage Repair</li> <li>ASE Entry-Level Inspection Maintenance &amp; Minor Repair, Medium/Heavy Truck</li> <li>ASE Refrigerant Recovery and Recycling</li> <li>Industrial Technology Maintenance (ITM) - Basic Mechanical Systems</li> <li>Industrial Technology Maintenance (ITM) - Basic Pneumatic Systems</li> <li>Industrial Technology Maintenance (ITM) - Electrical Systems</li> <li>Industrial Technology Maintenance (ITM) - Maintenance Operations</li> <li>Industrial Technology Maintenance (ITM) - Maintenance Welding</li> <li>Principles of Small Engine Technology Certification</li> <li>Small Engine Technology</li> </ul> |
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### 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: \$46,800  
Annual Openings: 7,491  
10-Year Growth: 10%

#### Bus and Truck Mechanics and Diesel Engine Specialists

Median Wage: \$56,776  
Annual Openings: 2,615  
10-Year Growth: 19%

#### First-Line Supervisors of Mechanics, Installers, and Repairers

Median Wage: \$70,554  
Annual Openings: 6,556  
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-military-prep/career-and-technical-education/tel-automotive-and-collision-repair-extendedppts.pdf>