



# 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 an 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> </ul>   |
| <b>Level 2</b> | <ul style="list-style-type: none"> <li>Introduction to Transportation Technology</li> <li>Occupational Safety and Environmental Technology I</li> <li>Small Engine 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> <li>Small Engine Technology II</li> </ul>   |
| <b>Level 4</b> | <ul style="list-style-type: none"> <li>Customer Service Representative (TBD)</li> <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>Career Preparation for Programs of Study</li> <li>Career Preparation for Programs of Study + Extended Career Preparation</li> </ul> |

### Aligned Advanced Academic Courses

**Dual Credit** Dual credit offerings will vary by Local Education Agency.

Students should be advised to consider these course opportunities to enrich their preparation. AP or IB courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards Concentrator/Completer status for this program of study.

### 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 a 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> </ul> | <ul style="list-style-type: none"> <li>ASE Entry-Level Collision Non-Structural Analysis and Damage Repair (MS)</li> <li>ASE Entry-Level Collision Painting and Refinishing (PR)</li> <li>ASE Entry-Level Collision Structural Analysis and Damage Repair</li> <li>ASE Refrigerant Recovery and Recycling</li> <li>Principles of Small Engine Technology Certification</li> <li>Small Engine Technology</li> <li>Industrial Technology Maintenance (ITM) - Basic Mechanical Systems</li> <li>Industrial Technology Maintenance (ITM) - Maintenance Operations</li> <li>Industrial Technology Maintenance (ITM) - Electrical Systems</li> <li>Industrial Technology Maintenance (ITM) - Maintenance Welding</li> <li>Industrial Technology Maintenance (ITM) - Basic Pneumatic Systems</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/Licensures**

- 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-military-prep/career-and-technical-education/programs-of-study-additional-resources>



# Transportation, Distribution, and Logistics Career Cluster

## Statewide Program of Study: Automotive and Collision Repair

### Course Information

Level 1

Course	Prerequisites   Corequisites	Career Clusters
<b>Principles of Transportation Systems*</b> 13039250 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	
<b>Basic Collision Repair and Refinishing</b> 13039750 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	

Level 2

Course	Prerequisites   Corequisites	Career Clusters
<b>Introduction to Transportation Technology*</b> 13039270 (0.5 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	
<b>Occupational Safety and Environmental Technology I*</b> N1303680 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: Principles of Transportation Systems, Principles of Distribution and Logistics, or Principles of Manufacturing Recommended Corequisites: None	
<b>Small Engine Technology I*</b> 13040000 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	
<b>Automotive Basics</b> 13039550 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	
<b>Collision Repair</b> 13039800 (2 credits)	Prerequisites: None Corequisites: None Recommended Prerequisites: Basic Collision Repair and Refinishing Recommended Corequisites: None	
<b>Collision Repair + Advanced Transportation Systems Laboratory</b> 13039810 (3 credits)	Prerequisites: None Corequisites: Automotive Technology II, Automotive Services, Diesel Equipment Technology II, Collision Repair, Paint and Refinishing, Aircraft Airframe Technology, or Aircraft Recommended Prerequisites: a minimum of one credit from the courses in the Transportation, Distribution, and Logistics Career Cluster Recommended Corequisites: None	
<b>Entrepreneurship I*</b> 13011101 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	

\* Indicates course is included in more than one program of study.

For additional information on the **Transportation, Distribution, and Logistics** career cluster, contact [cte@tea.texas.gov](mailto:cte@tea.texas.gov) or visit <https://tea.texas.gov/cte>



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# Transportation, Distribution, and Logistics Career Cluster

## Statewide Program of Study: Automotive and Collision Repair

### Course Information

Level 3

Course	Prerequisites   Corequisites	Career Clusters
<b>Energy and Power of Transportation Systems</b> 13039300 (1 credit)	<b>Prerequisites:</b> None <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> Principles of Transportation Systems <b>Recommended Corequisites:</b> None	
<b>Automotive Technology I: Maintenance and Light Repair</b> 13039600 (2 credits)	<b>Prerequisites:</b> None <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> Automotive Basics <b>Recommended Corequisites:</b> None	
<b>Paint and Refinishing</b> 13039900 (2 credits)	<b>Prerequisites:</b> None <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> Basic Collision Repair and Refinishing or Collision Repair <b>Recommended Corequisites:</b> None	
<b>Paint and Refinishing + Advanced Transportation Systems Laboratory</b> 13039910 (3 credits)	<b>Prerequisites:</b> None <b>Corequisites:</b> Automotive Technology II, Automotive Services, Diesel Equipment Technology II, Collision Repair, Paint and Refinishing <b>Recommended Prerequisites:</b> A minimum of one credit from the courses in the Transportation, Distribution, and Logistics career cluster <b>Recommended Corequisites:</b> None	
<b>Small Engine Technology II</b> 13040100 (2 credits)	<b>Prerequisites:</b> Sma II Engine Technology I <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	

Level 4

Course	Prerequisites   Corequisites	Career Clusters
<b>Customer Service Representative</b> TBD (TBD credit)	<b>Prerequisites:</b> TBD <b>Corequisites:</b> TBD <b>Recommended Prerequisites:</b> TBD <b>Recommended Corequisites:</b> TBD	
<b>Automotive Technology II: Automotive Service</b> 13039700 (2 credits)	<b>Prerequisites:</b> Automotive Technology I: Maintenance and Light Repair <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	
<b>Automotive Technology II: Automotive Service + Advanced Transportation Systems Laboratory</b> 13039710 (3 credits)	<b>Prerequisites:</b> Automotive Technology I, Maintenance and Light Repair <b>Corequisites:</b> Automotive Technology II, Automotive Services, Diesel Equipment Technology II, Collision Repair, Paint and Refinishing <b>Recommended Prerequisites:</b> A minimum of one credit from the courses in the Transportation, Distribution, and Logistics career cluster <b>Recommended Corequisites:</b> None	
<b>Practicum in Transportation Systems</b> First Time Taken: 13040450 (2 credits) Second Time Taken: 13040460 (2 credits)	<b>Prerequisites:</b> None <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	

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\* Indicates course is included in more than one program of study.

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## Statewide Program of Study: Automotive and Collision Repair

### Course Information

Level 4

Course	Prerequisites   Corequisites	Career Clusters
<b>Practicum in Transportation Systems + Extended Practicum in Transportation Systems*</b> First Time Taken: 13040455 (3 credits) Second Time Taken: 13040465 (3 credits)	<b>Prerequisites:</b> None <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	
<b>Practicum in Entrepreneurship*</b> First Time Taken: 13011111 (2 credits)	<b>Prerequisites:</b> None <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> Entrepreneurship I and Entrepreneurship II or successful completion of at least two courses in a career and technical education program of study <b>Recommended Corequisites:</b> None	
<b>Career Preparation for Programs of Study</b> First Time Taken: 12701121 (2 credits)	<b>Prerequisites:</b> At least one Level 2 or higher career and technical education course <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	
<b>Career Preparation for Programs of Study + Extended Career Preparation</b> First Time Taken: 12701141 (3 credits)	<b>Prerequisites:</b> At least one Level 2 or higher career and technical education course <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	

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