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
- Principles of Transportation Systems
- Basic Collision Repair and Refinishing
- Introduction to Small Engine Technology

Level 2
- Introduction to Transportation Technology
- Small Engine Technology
- Automotive Basics
- Collision Repair
- Collision Repair + Advanced Transportation Systems Laboratory
- Entrepreneurship I

Level 3
- Energy and Power of Transportation Systems
- Automotive Technology I: Maintenance and Light Repair
- Paint and Refinishing
- Paint and Refinishing + Advanced Transportation Systems Laboratory

Level 4
- Automotive Technology II: Automotive Service
- Automotive Technology II: Automotive Service + Advanced Transportation Systems Laboratory
- Practicum in Transportation Systems
- Practicum in Transportation Systems + Extended Practicum in Transportation Systems
- Practicum in Entrepreneurship
- Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship
- Career Preparation for Programs of Study
- Career Preparation for Programs of Study + Extended Career Preparation

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

- 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 Repair and Refinish Fundamentals
- ASE Entry-Level Collision Structural Analysis and Damage Repair
- ASE Entry-Level Inspection Maintenance & Minor Repair, Medium/Heavy Truck
- ASE Entry-Level Medium/Heavy Truck, Brakes (TB)
- ASE Entry-Level Medium/Heavy Truck, Diesel Engines (DE)
- ASE Entry-Level Medium/Heavy Truck, Electrical/Electronic Systems (TE)
- ASE Entry-Level Medium/Heavy Truck, Suspension and Steering (TS)
- ASE Refrigerant Recovery and Recycling
- Basic Hydraulic Systems
- Diesel Technology - Job Ready
- Heavy Equipment Maintenance and Repair - Job Ready
- Industrial Technology Maintenance (ITM) - Basic Mechanical Systems
- Industrial Technology Maintenance (ITM) - Basic Pneumatic Systems
- Industrial Technology Maintenance (ITM) - Electrical Systems
- Industrial Technology Maintenance (ITM) - Maintenance Operations
- Industrial Technology Maintenance (ITM) - Maintenance Welding
- Principles of Small Engine Technology Certification
- Small Engine Technology

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

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/programs-of-study-additional-resources

Automotive and Collision Repair

Transportation, Distribution, and Logistics Career Cluster

Statewide Program of Study: Automotive and Collision Repair

Course Information

Level 1

Course	Prerequisites | Corequisites	Career Clusters
Principles of Transportation Systems* 13039250 (1 credit)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** None **Recommended Corequisites:** None	
Basic Collision Repair and Refinishing 13039750 (1 credit)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** None **Recommended Corequisites:** None	
Introduction to Small Engine Technology* 13040000 (1 credit)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** None **Recommended Corequisites:** None	

Level 2

Course	Prerequisites | Corequisites	Career Clusters
Introduction to Transportation Technology* 13039270 (0.5 credit)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** None **Recommended Corequisites:** None	
Small Engine Technology 13040100 (2 credits)	**Prerequisites:** Introduction to Small Engine Technology **Corequisites:** None **Recommended Prerequisites:** None **Recommended Corequisites:** None	
Automotive Basics 13039550 (1 credit)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** None **Recommended Corequisites:** None	
Collision Repair 13039800 (2 credits)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** Basic Collision Repair and Refinishing **Recommended Corequisites:** None	

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** Indicates course is included in more than one program of study in this career cluster.*

For additional information on the **Transportation, Distribution, and Logistics** career cluster, contact 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 2

Course	Prerequisites | Corequisites	Career Clusters
Collision Repair + Advanced Transportation Systems Laboratory 13039810 (3 credits)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** Basic Collision Repair and Refinishing **Recommended Corequisites:** None	
Entrepreneurship I* 13011101 (1 credit)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** Principles of Business, Marketing, and Finance **Recommended Corequisites:** None	

Level 3

Course	Prerequisites | Corequisites	Career Clusters
Energy and Power of Transportation Systems 13039300 (1 credit)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** Principles of Transportation Systems **Recommended Corequisites:** None	
Automotive Technology I: Maintenance and Light Repair 13039600 (2 credits)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** Automotive Basics **Recommended Corequisites:** None	
Paint and Refinishing 13039900 (2 credits)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** Basic Collision Repair and Refinishing or Collision Repair **Recommended Corequisites:** None	

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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
Paint and Refinishing + Advanced Transportation Systems Laboratory 13039910 (3 credits)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** Basic Collision Repair and Refinishing or Collision Repair **Recommended Corequisites:** None	

Level 4

Course	Prerequisites | Corequisites	Career Clusters
Automotive Technology II: Automotive Service 13039700 (2 credits)	**Prerequisites:** Automotive Technology I: Maintenance and Light Repair **Corequisites:** None **Recommended Prerequisites:** None **Recommended Corequisites:** None	
Automotive Technology II: Automotive Service + Advanced Transportation Systems Laboratory 13039710 (3 credits)	**Prerequisites:** Automotive Technology I: Maintenance and Light Repair **Corequisites:** None **Recommended Prerequisites:** None **Recommended Corequisites:** None	
Practicum in Transportation Systems* First Time Taken: 13040450 (2 credits) Second Time Taken: 13040460 (2 credits)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** None **Recommended Corequisites:** None	
Practicum in Transportation Systems + Extended Practicum in Transportation Systems* First Time Taken: 13040455 (3 credits) Second Time Taken: 13040465 (3 credits)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** None **Recommended Corequisites:** None	

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Transportation, Distribution, and Logistics Career Cluster

Statewide Program of Study: Automotive and Collision Repair

Level 4

Course Information

Course	Prerequisites | Corequisites	Career Clusters
Practicum in Entrepreneurship* First Time Taken: 13011111 (2 credits)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** Entrepreneurship I and II, or successful completion of at least two courses in a CTE program of study **Recommended Corequisites:** None	
Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* First Time Taken: 13011121 (3 credits)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** Entrepreneurship I and II, or successful completion of at least two courses in a CTE program of study **Recommended Corequisites:** None	
Career Preparation for Programs of Study* First Time Taken: 12701121 (2 credits)	**Prerequisites:** At least one Level 2 or higher CTE course **Corequisites:** None **Recommended Prerequisites:** None **Recommended Corequisites:** None	
Career Preparation for Programs of Study + Extended Career Preparation* First Time Taken: 12701141 (3 credits)	**Prerequisites: :** At least one Level 2 or higher CTE course **Corequisites:** None **Recommended Prerequisites:** None **Recommended Corequisites:** None	

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