



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
 - Small Engine Technology I

- Level 2**
 - Introduction to Transportation Technology
 - Small Engine Technology II
 - Occupational Safety and Environmental Technology I
 - 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
 - Customer Service Representative (TBD)
 - 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

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 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 Structural Analysis and Damage Repair
- ASE Refrigerant Recovery and Recycling
- Principles of Small Engine Technology Certification
- Small Engine Technology
- Industrial Technology Maintenance (ITM) - Basic Mechanical Systems
- Industrial Technology Maintenance (ITM) - Maintenance Operations
- Industrial Technology Maintenance (ITM) - Electrical Systems
- Industrial Technology Maintenance (ITM) - Maintenance Welding
- Industrial Technology Maintenance (ITM) - Basic Pneumatic Systems

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: \$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 |
|--|--|---|
| 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 |  |
| Small Engine Technology I* 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 II 13040100 (2 credits) | Prerequisites: Small Engine Technology I Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None |  |
| Occupational Safety and Environmental Technology I* 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 |    |
| 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 |  |

Continued on next page

* 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 or visit <https://tea.texas.gov/cte>

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 | |

Continued on next page

* 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 or visit <https://tea.texas.gov/cte>








[LEA name] does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: [title], [address], [telephone number], [email]. Further nondiscrimination information can be found at [Notification of Nondiscrimination in Career and Technical Education Programs](#).

Transportation, Distribution, and Logistics Career Cluster

Statewide Program of Study: Automotive and Collision Repair

Course Information

| | Course | Prerequisites Corequisites | Career Clusters |
|---------|--|--|---|
| Level 3 | 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 | 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 |  |
| | Customer Service Representative TBD (TBD credit) | Prerequisites: TBD Corequisites: TBD Recommended Prerequisites: TBD Recommended Corequisites: TBD |  |
| | 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 |  |
| | Continued on next page | | |

* 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 or visit <https://tea.texas.gov/cte>








[LEA name] does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: [title], [address], [telephone number], [email]. Further nondiscrimination information can be found at [Notification of Nondiscrimination in Career and Technical Education Programs](#).

Transportation, Distribution, and Logistics Career Cluster

Statewide Program of Study: Automotive and Collision Repair

Course Information

Level 4

| Course | Prerequisites Corequisites | Career Clusters |
|---|---|--|
| 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 |  |
| 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: Practicum in Entrepreneurship 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 |  |

* 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 or visit <https://tea.texas.gov/cte>