



Local Implementation Considerations:

Students completing two or more courses for two or more credits within a program of study earn concentrator status for Perkins V federal accountability reporting.

Proposed Indicator: Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn completer status for federal accountability reporting.



COURSES

LEVEL 1

Principles of Transportation Systems
Small Engine Technology I
Basic Collision Repair and Refinishing

LEVEL 2

Automotive Basics
Introduction to Transportation Technology
Small Engine Technology II
Collision Repair/Lab
Occupational Safety and Environmental Technology I

LEVEL 3

Automotive Technology I
Energy and Power of Transportation Systems
Paint and Refinishing/Lab

LEVEL 4

Automotive Technology II/Lab
Practicum in Transportation Systems
Practicum in Entrepreneurship (TBD)
Career Preparation I

POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Automotive Service Excellence (ASE) Entry Level	Master Collision Repair and Refinishing Technician	Autobody/ Collision and Repair Technology/ Technician		Mechanical Engineering
Automotive Service Excellence (ASE) Professional Level	Automobile Technician: various systems and parts	Medium/Heavy Vehicle and Truck Technology/ Technician		
	Engine Machinist Technician	Mechanical Engineering/ Mechanical Technology/ Technician		
	Collision Repair and Refinish			

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Automotive Body and Related Repairers	\$40,144	1,456	25%
Automotive Service Technician and Mechanics	\$38,459	208	25%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
SkillsUSA competition
Automotive Service Association

Work Based Learning Activities:
Work at a local automotive repair or body shop.

The Automotive program of study teaches students how to repair and refinish automobiles and service various types of vehicles. Students may learn to collect payment for services or supplies and perform typical vehicle maintenance procedures such as lubrication, oil changes, installation of antifreeze, or replacement of accessories like wiper blades or tires.



The Transportation, Distribution, and Logistics Career Cluster® focuses on careers in planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water. It also includes related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Successful completion of the Automotive program of study will fulfill requirements of the Business and Industry Endorsement.
Approved Statewide Program of Study - September 2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Transportation Systems	13039250 (1 credit)	None	9-12
Small Engine Technology I	13040000 (1 credit)	None	9-12
Basic Collision Repair and Refinishing	13039750 (1 credit)	None	9-12
Automotive Basics	13039550 (1 credit)	None	9-12
Introduction to Transportation Technology	13039270 (.5 credit)	None	9-10
Small Engine Technology II	13040100 (2 credits)	PREQ: Small Engine Technology I	10-12
Collision Repair/Lab	13039800 (2 credits) 13039810 (3 credits)	None	10-12
Occupational Safety and Environmental Technology I	N1303680 (1 credit)	None	9-12
Automotive Technology I: Maintenance and Light Repair	13039600 (2 credits)	None	9-12
Energy and Power of Transportation Systems	13039300 (1 credit)	None	10-12
Paint and Refinishing/Lab	13039900 (2 credits) 13039910 (3 credits)	None	10-12
Automotive Technology II/Lab	13039700 (2 credits) 13039710 (3 credits)	PREQ: Automotive Technology I: Maintenance and Light Repair	11-12
Practicum in Transportation Systems	13040450 (2 credits) 13040455 (3 credits) 13040460 (2 credits) 13040465 (3 credits)	None	11-12
Practicum in Entrepreneurship	TBD	TBD	TBD
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

**FOR ADDITIONAL INFORMATION ON THE TRANSPORTATION, DISTRIBUTION,
AND LOGISTICS CAREER CLUSTER, PLEASE CONTACT:**

Kevin Johnson | Kevin.Johnson@tea.texas.gov
<https://tea.texas.gov/cte>



COURSES

LEVEL 1

Introduction to Aircraft Technology

LEVEL 2

Occupational Safety and Environmental Technology I
Aviation Maintenance (TBD)

LEVEL 3

Aircraft Airframe Technology/Lab

LEVEL 4

Aircraft Powerplant Technology/Lab
Practicum in Transportation Systems
Career Preparation I

POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Aerospace Manufacturing Certification	Avionics Electronics Technician	Avionics Maintenance Technology/ Technician	Airframe Mechanics and Aircraft Maintenance Technology/ Technician	
	Aircraft Electronics Technician	Aircraft Powerplant Technology/ Technician		
	Aerospace/ Aircraft Assembly Maintenance Certification	Airframe Mechanics and Aircraft Maintenance Technology/ Technician		

*Includes Level I and II Certificates

For more information on postsecondary options for this program of study, visit TXCTE.org.

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Aircraft Mechanics and Technicians	\$58,698	1,469	9%
Avionics Technicians	\$59,114	170	9%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Participate in SkillsUSA
Explore virtual aviation
websites.

**Work Based Learning
Activities:**
Seek part-time work at an
airport, aviation services
agency, or airline.

The Aviation Maintenance program of study introduces students to the occupations and education opportunities related to inspecting aircraft, maintenance procedures, air navigational aids, air traffic controls, and communications equipment to ensure conformance with federal safety regulations.



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Successful completion of the Aviation program of study will fulfill requirements of the Business and Industry Endorsement.
Approved Statewide Program of Study - September 2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Introduction to Aircraft Technology	13039350 (1 credit)	None	9-12
Occupational Safety and Environmental Technology I	N1303680 (1 credit)	None	9-12
Aviation Maintenance	TBD	TBD	TBD
Aircraft Airframe Technology/Lab	13039400 (2 credits) 13039410 (3 credits)	PREQ: Introduction to Aircraft Technology	10-12
Aircraft Powerplant Technology/Lab	13039500 (2 credits) 13039510 (3 credits)	PREQ: Introduction to Aircraft Technology	11-12
Practicum in Transportation Systems	13040450 (2 credits) 13040455 (3 credits) 13040460 (2 credits) 13040465 (3 credits)	None	11-12
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

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DIESEL AND HEAVY EQUIPMENT

COURSES

LEVEL 1

Introduction to Transportation Technology
Principles of Transportation Systems

LEVEL 2

Diesel Equipment Technology I
Occupational Safety and Environmental
Technology I

LEVEL 3

Diesel Equipment Technology II/Lab

LEVEL 4

Practicum in Transportation Systems
Practicum in Entrepreneurship (TBD)
Career Preparation I

POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
ASE Medium/ Heavy Truck Technician, Brakes (T4)	Engine Machinist Technician	Diesel Mechanics Technology/ Technician		
ASE Medium/Heavy Truck Technician, Diesel Engines (T2)	Light Vehicle Diesel Engines	Medium/Heavy Vehicle and Truck Technology/ Technician		
ASE Medium/Heavy Truck Technician, Drive Train (T3) - Professional	Transit Bus Technician	Heavy Equipment Maintenance Technology/ Technician		
ASE Medium/ Heavy Truck Technician, Electrical/ Electronic Systems (T6)	Fluid Power Mechanic			

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Bus and Truck Mechanics and Diesel Engine Specialists	\$44,574	3,150	21%
Mobile Heavy Equipment Mechanics, Except Engines	\$47,299	1,627	16%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Participate in SkillsUSA

**Work Based Learning
Activities:**
Volunteer or work
part-time for a repair
shop that works on
engines

The Diesel and Heavy Equipment program of study teaches students to diagnose, repair, modify, or redo mechanical and hydraulic equipment on crane, bulldozer, grader, conveyor, construction equipment, bus, and truck diesel engines.



The Transportation, Distribution, and Logistics Career Cluster® focuses on careers in planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water. It also includes related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Successful completion of the Diesel and Heavy Equipment program of study will fulfill requirements of the Business and Industry Endorsement.

Approved Statewide Program of Study - September 2019



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Introduction to Transportation Technology	13039270 (.5 credit)	None	9-10
Principles of Transportation Systems	13039250 (1 credit)	None	9-12
Diesel Equipment Technology I	13040150 (2 credits)	None	9-12
Occupational and Safety Environmental Technology I	N1303680 (1 credit)	None	9-12
Practicum in Entrepreneurship	TBD	TBD	TBD
Diesel Equipment Technology II/Lab	13040160 (2 credits) 13040170 (3 credits)	PREQ: Diesel Equipment Technology I	10-12
Practicum in Transportation Systems	13040450 (2 credits) 13040455 (3 credits) 13040460 (2 credits) 13040465 (3 credits)	None	11-12
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

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COURSES

LEVEL 1

Principles of Distribution and Logistics

LEVEL 2

Management of Transportation Systems
Concepts of Distribution and Logistics
Technology (TBD)
Occupational Safety and Environmental
Technology I

LEVEL 3

Distribution and Logistics
Raster-Based Geographic Information
Systems
Logistics Engineering (TBD)

LEVEL 4

Practicum in Distribution and Logistics
Practicum in Entrepreneurship (TBD)
Career Preparation I

POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
MSSC Certified Logistics Technicians	Emergency Number Professional	Business Administration and Management, General		
	SAP Certified Application Associate - Logistics Execution and Warehouse Management	Operations Management and Supervision		
	Certified Billing and Coding Specialist	General Office Occupations and Clerical Services	Business/ Commerce, General	Public Administration
	Cargo Shipper's Agent	Business Administration and Management, General		

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OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Logisticians	\$77,210	1,550	13%
Supply Chain Managers	\$113,110	1,794	26%
Transportation, Storage, and Distribution Managers	\$89,045	965	31%
Purchasing Managers	\$121,722	497	14%
Purchasing Agents, Except Wholesale, Retail, and Farm Products	\$64,293	2,727	9%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
SkillsUSA, FBA, FBLA, or
Technology Student
Association

**Work Based Learning
Activities:**
Intern at a distribution or
warehousing center.

The Distribution and Logistics program of study teaches students how to plan, coordinate, and direct people and operational plans related to distributed goods and services. Students will learn how to manage daily operations and logistics personnel.



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Successful completion of the Distribution and Logistics program of study will fulfill requirements of the Business and Industry Endorsement.
Approved Statewide Program of Study - September 2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Distribution and Logistics	13039260 (1 credit)	None	9-12
Management of Transportation Systems	13040200 (1 credit)	None	10-12
Concepts of Distributions and Logistics Technology (TBD)	TBD	TBD	TBD
Occupational Safety and Environmental Technology I	N1303680 (1 credit)	None	9-12
Distribution and Logistics	13040300 (1 credit)	None	11-12
Raster-Based Geographic Information Systems	N1302806 (1 credit)	None	10-12
Logistics Engineering	TBD	TBD	TBD
Practicum in Distribution and Logistics	13040470 (2 credits) 13040475 (3 credits) 13040480 (2 credits) 13040485 (3 credits)	None	11-12
Practicum in Entrepreneurship	TBD	TBD	TBD
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

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