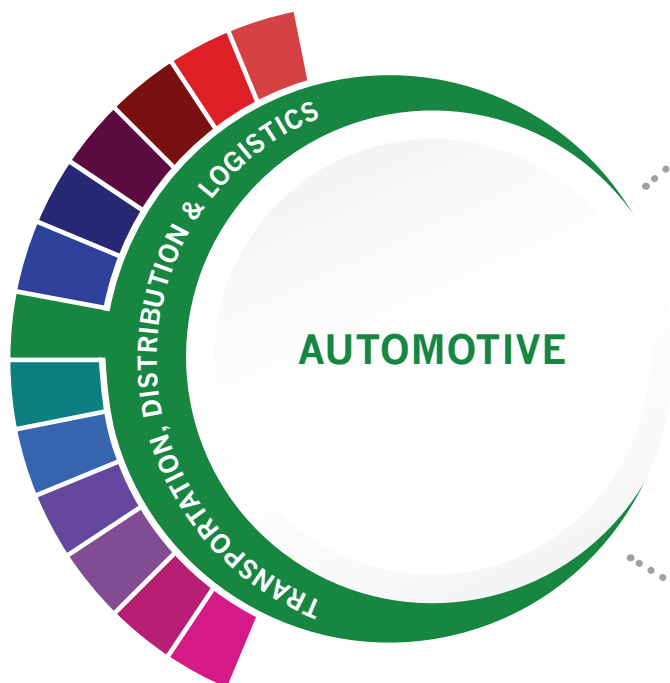


Local Implementation Considerations:

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

LEVEL 3

Automotive Technology I
Energy and Power of Transportation Systems
Paint and Refinishing
Occupational Safety and Environmental Technology I

LEVEL 4

Automotive Technology II
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

Career Preparation:
Work at a local automotive repair or body shop
Maintain family or friend's automobiles by changing oil, ties, and performing general maintenance

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.
Program of Study Draft for Public Comment June 2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ) RECOMMENDED PREREQUISITES (RPREQ) RECOMMENDED COREQUISITIES (CREQ)	GRADE
Principles of Transportation Systems	13039250	None	9-12
Small Engine Technology I	13040000	None	9-12
Basic Collision Repair and Refinishing	13039750	None	9-12
Automotive Basics	13039550	None	9-12
Introduction to Transportation Technology	13039270	None	9-10
Small Engine Technology II	13040100	PREQ: Small Engine Technology I	10-12
Collision Repair	13039800 (2 credits) 13039510 (3 credits)	RPREQ: Basic Collision Repair and Refinishing	10-12
Automotive Technology I: Maintenance and Light Repair	13039600	RPREQ: Automotive Basics	9-12
Energy and Power of Transportation Systems	13039300	RPREQ: Principles of Transportation Systems	10-12
Paint and Refinishing	13039900 (2 credits) 13039510 (3 credits)	RPREQ: Basic Collision Repair and Refinishing or Collision Repair	10-12
Occupational Safety and Environmental Technology I	N1303680	RPREQ: Principles of Transportation Systems, Principles of Distribution and Logistics, or Principles of Manufacturing	9-12
Automotive Technology II	13039700 (2 credits) 13039510 (3 credits)	PREQ: Automotive Technology I: Maintenance and Light Repair	11-12
Practicum in Transportation Systems	13040450 (2 credits) 13040455 (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:

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COURSES

LEVEL 1

Introduction to Aircraft Technology

LEVEL 2

Occupational Safety and Environmental Technology I
Aviation Maintenance (TBD)

LEVEL 3

Aircraft Airframe Technology

LEVEL 4

Aircraft Powerplant Technology
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

Career Preparation:
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.



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 Aviation program of study will fulfill requirements of the Business and Industry Endorsement.
Program of Study Draft for Public Comment June 2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	PRE REQS CO REQS REC REQS	GRADE
Introduction to Aircraft Technology	13039350	None	9-12
Occupational Safety and Environmental Technology I	N1303680	RPREQ: Principles of Transportation Systems, Principles of Distribution and Logistics, or Principles of Manufacturing	9-12
Aviation Maintenance	TBD	TBD	TBD
Aircraft Airframe Technology	13039400 (2 credits) 13039410 (3 credits)	PREQ: Introduction to Aircraft Technology	10-12
Aircraft Powerplant Technology	13039500 (2 credits) 13039510 (3 credits)	PREQ: Introduction to Aircraft Technology	11-12
Practicum in Transportation Systems	13040450 (2 credits) 13040455 (3 credits)	None	11-12
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

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AND LOGISTICS CAREER CLUSTER, PLEASE CONTACT:**

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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

LEVEL 4

Practicum in Transportation Systems
Practicum in Entrepreneurship
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

Career Preparation:
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.

Program of Study Draft for Public Comment June 2019

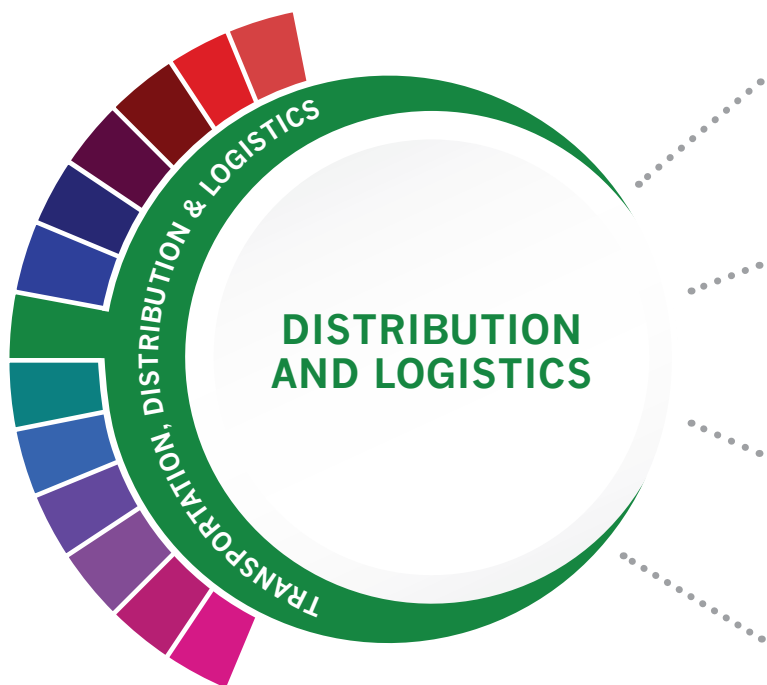
COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ) RECOMMENDED PREREQUISITES (RPREQ) RECOMMENDED COREQUISITES (CREQ)	GRADE
Introduction to Transportation Technology	13039270	None	9-10
Principles of Transportation Systems	13039250	None	9-12
Diesel Equipment Technology I	13040150	None	9-12
Occupational and Safety Environmental Technology I	N1303680	RPREQ: Principles of Transportation Systems, Principles of Distribution and Logistics, or Principles of Manufacturing	9-12
Practicum in Entrepreneurship	TBD	TBD	TBD
Diesel Equipment Technology II	13040160 (2 credits) 13039510 (3 credits)	PREQ: Diesel Equipment Technology I	10-12
Practicum in Transportation Systems	13040450 (2 credits) 13040455 (3 credits)	None	11-12
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:

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COURSES

Principles of Distribution and Logistics

LEVEL 1

Management of Transportation Systems
Raster-Based Geographic Information Systems
Concepts of Distribution and Logistics
Technology (TBD)

LEVEL 2

Distribution and Logistics
Occupational Safety and Environmental
Technology I
Logistics Engineering (TBD)

LEVEL 3

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

LEVEL 4

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		

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
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

Career Preparation:
Intern at a distribution or
warehousing center
Research a local
transportation or
distribution issue and
present a solution

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.



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 Distribution and Logistics program of study will fulfill requirements of the Business and Industry Endorsement.

Program of Study Draft for Public Comment June 2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ) RECOMMENDED PREREQUISITES (RPREQ) RECOMMENDED COREQUISITES (CREQ)	GRADE
Principles of Distribution and Logistics	13039260	None	9-12
Management of Transportation Systems	13040200	RPREQ: Principles of Transportation Systems	10-12
Raster-Based Geographic Information Systems	N1302806	None	10-12
Concepts of Distribution and Logistics Technology	TBD	TBD	TBD
Distribution and Logistics	13040300	RPREQ: Principles of Distribution and Logistics	11-12
Occupational Safety and Environmental Technology I	N1303680	RPREQ: Principles of Transportation Systems, Principles of Distribution and Logistics, or Principles of Manufacturing	9-12
Logistics Engineering	TBD	TBD	TBD
Practicum in Distribution and Logistics	13040470 (2 credits) 13040475 (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:

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