



## Transportation, Distribution, and Logistics Career Cluster

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.

## Automotive Statewide Program of Study





The Automotive program of study teaches CTE learners how to repair and refinish automobiles and service various types of vehicles. CTE learners 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.

## **Secondary Courses for High School Credit**

Level 1

Level 2

#### Level 3

Automotive Technology I

#### Level 4

Automotive Technology II/Lab

#### **Postsecondary Opportunities**

#### **Associates Degrees**

- Autobody/ Collision and Repair Technology/ Technician
- Medium/Heavy Vehicle and Truck Technology/ Technician
- Mechanical Engineering/ Mechanical Technology/ Technician

#### **Bachelor's Degrees**

 Mechanical Engineering/ Mechanical Technology/ Technician

#### Master's, Doctoral, and Professional Degrees

· Mechanical Engineering

#### Work-Based Learning and Expanded Learning Opportunities

#### Exploration Activities

Work-Based Learning
Activities

 Join SkillsUSA or the Automotive Service Association  Work at a local automotive repair or body shop

#### **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
- Principles of Small Engine Technology Certification
- Small Engine Technology
- OSHA 30 Hour General\*
- ASE Suspension and Steering\*
- ASE Structural Analysis Damage Repair\*
- ASE Painting & Refinishing\*
- ASE Non-Structural Analysis Damage Repair\*
- ASE Mech Elec Components\*
- ASE Manual Drive Train Axles\*
- ASE Maintenance Light Repair\*
- ASE Heating, Ventilation, AC (HVAC)\*
- ASE Auto Transmission\*
- ASE Automobile Service Technology\*
- ASE Brakes\*
- ASE Electrical/Electronic Systems\*
- ASE Engine Performance\*
- ASE Engine Repair\*

\*IBC sunsetting 8/31/24

### **Aligned Occupations**

Occupations	Median Wage	Annual Openings	% Growth
Automotive Body and Related Repairers	\$40,144	1,456	25%
Automotive Service Technician and Mechanics	\$38,459	5,557	18%



# Automotive Course Information

## Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	GRADE
Level 2			
COURSE NAME	SERVICE ID	PREREQUISITES	GRADE

## Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	GRADE
5902 A/B Automotive Technology I	13039600 (2 credits)	None	11

## Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	GRADE
5904 A/B Automotive Technology II/Lab	13039700 (2 credits) 13039710 (3 credits)	Automotive Technology I: Maintenance and Light Repair	12

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## **Maritime**Regional Program of Study





The Maritime regional program of study introduces CTE learners to the occupations and education opportunities related to operating water vessels, maintenance procedures, maritime navigational aids, maritime traffic controls, and communications equipment to ensure conformance with federal safety regulations.

## **Secondary Courses for High School Credit**

Level 1

Level 2

#### Level 3

Maritime Science I

#### Level 4

Maritime Science II

#### **Postsecondary Opportunities**

#### **Associates Degrees**

Captains, Mates, and Pilots

#### **Bachelor's Degrees**

- Marine Transportation
- · Transportation, Storage, and Distribution Management

#### Master's, Doctoral, and Professional Degrees

- Maritime Resources Management
- Maritime Administration and Logistics

### Work-Based Learning and Expanded Learning Opportunities

## Exploration Activities Work-Based Learning

Activities

- Participate in SkillsUSA
- Participate in a maritime apprenticeship or internship
- Work part-time at a shipping company

#### **Industry-Based Certifications**

OSHA 30 Hour General\*

\*IBC sunsetting 8/31/24



### **Aligned Occupations**

Occupations	Median Wage	Annual Openings	% Growth
Sailors and Marine Oilers	\$41,018	387	9%
Captains, Mates, and Pilots of Water Vessels	\$117,686	413	16%
Motorboat Operators	\$44,970	22	16%
Ship Engineers	\$76,752	87	15%



Successful completion of the Maritime program of study will fulfill requirements of the Business and Industry endorsement. Revised – August 2022

## Maritime Course Information

## Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	GRADE
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## Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	GRADE
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## Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	GRADE
5914 A/B Maritime Science I	N1304662 (1 credit)	None	11

## Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
5916 A/B Maritime Science II	N1304663 (1 credit)	Maritime Science I	12