

# 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.

## Regional Program of Study: Maritime

### Approved in ESC Regions 2, 4, and 5

\*The list of approved ESC regions is updated every school year, be sure to check the CTE regional program of study website for updates.

The Maritime regional program of study focuses on educational and occupational opportunities associated with the operation of water vessels. This program of study includes maintenance procedures and operation of maritime navigational aids, maritime traffic controls, and communications equipment to ensure conformance with federal safety regulations.

## Secondary Courses for High School Credit

- Level 1**
  - Principles of Maritime Science
  - Principles of Transportation Systems
  - Principles of Distribution and Logistics

---

- Level 2**
  - Introduction to Shipboard Engineering
  - Maritime Science I
  - Occupational Safety and Environmental Technology I

---

- Level 3**
  - Maritime Science II
  - Advanced Shipboard Engineering

---

- Level 4**
  - Practicum in Transportation Systems
  - Practicum in Transportation Systems + Extended Practicum in Transportation Systems
  - Practicum in Distribution and Logistics
  - Practicum in Distribution and Logistics + Extended Practicum in Distribution and Logistics
  - 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

<b>Work-Based Learning Activities</b>	<ul style="list-style-type: none"> <li>• Shadow at a maritime port to learn about maritime traffic control</li> <li>• Participate in a pre-apprenticeship with a government agency (such as U.S. Coast Guard) working closely with ship engineers</li> </ul>
<b>Expanded Learning Opportunities</b>	<ul style="list-style-type: none"> <li>• Participate in SkillsUSA</li> <li>• Tour various maritime vessels</li> </ul>

## Aligned Industry-Based Certifications

- Certified Logistics Technician (CLT)



## Example Postsecondary Opportunities

### Apprenticeships

- Maritime Apprenticeship Program (MAP)

### Associate Degrees

- Logistics
- Transportation and Mobility Management

### Bachelor's Degrees

- Logistics and Supply Chain Management
- Maritime Transportation

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

- Logistics
- Transportation and Mobility Management

### Additional Stackable IBCs/License

- Limited Tonnage Workboat Mate



## Example Aligned Occupations

### Sailors and Marine Oilers

Median Wage: \$69,299  
Annual Openings: 329  
10-Year Growth: 10%

### Motorboat Operators

Median Wage: \$40,223  
Annual Openings: 83  
10-Year Growth: 14%

### Captains, Mates, and Pilots of Water Vessels

Median Wage: \$102,803  
Annual Openings: 293  
10-Year Growth: 13%

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

## Regional Program of Study: Maritime

### Course Information

	Course	Prerequisites   Corequisites	Career Clusters
Level 1	Principles of Maritime Science N1304661 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	
	Principles of Transportation Systems* 13039250 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	
	Principles of Distribution and Logistics* 13039260 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	 
Level 2	Introduction to Shipboard Engineering N1304666 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	
	Maritime Science I N1304662 (1 credit)	Prerequisites: None 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	  
Level 3	Maritime Science II N1304663 (1 credit)	Prerequisites: Maritime Science I Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	
	Advanced Shipboard Engineering N1304667 (1 credit)	Prerequisites: None 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](mailto:cte@tea.texas.gov) or visit <https://tea.texas.gov/cte>

# Transportation, Distribution, and Logistics Career Cluster

## Regional Program of Study: Maritime

### Course Information

Level 4

Course	Prerequisites   Corequisites	Career Clusters
<b>Practicum in Transportation Systems*</b> First Time Taken: 13040450 (2 credits) Second Time Taken: 13040460 (2 credits)	<b>Prerequisites:</b> None <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	
<b>Practicum in Transportation Systems + Extended Practicum in Transportation Systems*</b> First Time Taken: 13040455 (3 credits) Second Time Taken: 13040465 (3 credits)	<b>Prerequisites:</b> None <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	
<b>Practicum in Distribution and Logistics*</b> First Time Taken: 13040470 (2 credits) Second Time Taken: 13040480 (2 credits)	<b>Prerequisites:</b> None <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	
<b>Practicum in Distribution and Logistics + Extended Practicum in Distribution and Logistics*</b> First Time Taken: 13040475 (3 credits) Second Time Taken: 13040485 (3 credits)	<b>Prerequisites:</b> None <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	
<b>Career Preparation for Programs of Study*</b> First Time Taken: 12701121 (2 credits)	<b>Prerequisites:</b> At least one Level 2 or higher CTE course <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	
<b>Career Preparation for Programs of Study + Extended Career Preparation*</b> First Time Taken: 12701141 (3 credits)	<b>Prerequisites:</b> : At least one Level 2 or higher CTE course <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> 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](mailto:cte@tea.texas.gov) or visit <https://tea.texas.gov/cte>