

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

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

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|----------------|--|
| Level 1 | <ul style="list-style-type: none"> Principles of Maritime Science |
| Level 2 | <ul style="list-style-type: none"> Introduction to Shipboard Engineering Maritime Science I Occupational Safety and Environmental Technology I |
| Level 3 | <ul style="list-style-type: none"> Maritime Science II Advanced Shipboard Engineering |
| Level 4 | <ul style="list-style-type: none"> 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

Work-Based Learning Activities

- Shadow at a maritime port to learn about maritime traffic control
- Participate in a pre-apprenticeship with a government agency (such as U.S. Coast Guard) working closely with ship engineers

Expanded Learning Opportunities

- Participate in SkillsUSA
- Tour various maritime vessels

Aligned Industry-Based Certification

- 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/Licensures

- 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>



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Regional Program of Study: Maritime

Course Information

Level 1

Course	Prerequisites Corequisites	Career Clusters
Principles of Maritime Science N1304661 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	

Level 2

Course	Prerequisites Corequisites	Career Clusters
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: None Recommended Corequisites: None	

Level 3

Course	Prerequisites Corequisites	Career Clusters
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 or visit <https://tea.texas.gov/cte>



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Regional Program of Study: Maritime

Course Information

Level 4

Course	Prerequisites Corequisites	Career Clusters
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	
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 Distribution and Logistics* First Time Taken: 13040470 (2 credits) Second Time Taken: 13040480 (2 credits)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	
Practicum in Distribution and Logistics + Extended Practicum in Distribution and Logistics* First Time Taken: 13040475 (3 credits) Second Time Taken: 13040485 (3 credits)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	
Career Preparation for Programs of Study First Time Taken: 12701121 (2 credits)	Prerequisites: At least one Level 2 or higher career and technical education 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 career and technical education course Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	

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