

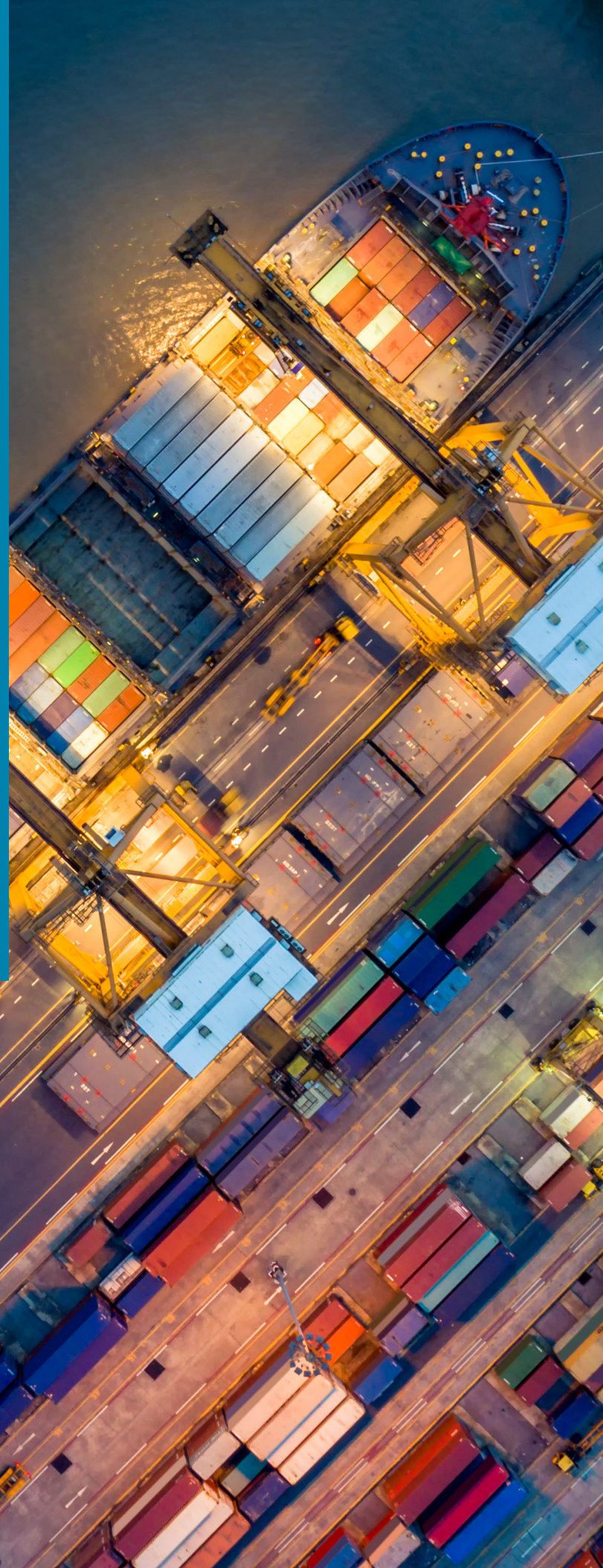


PORT HOUSTONSM

PORT HOUSTON MARITIME EDUCATION GUIDE



The
future
looks
bright!



“I started my career as an intern at Port Houston and have seen first-hand the benefits of choosing a career in the maritime field. Port Houston partners with industry, community, and academic stakeholders to help build a well-trained talent pool of maritime and logistics professionals. I invite you to explore the many opportunities available in our industry.”

Charlie Jenkins
Chief Executive Officer



ABOUT PORT HOUSTON

For more than 100 years, Port Houston has owned, managed and operated the public wharves and terminals along the Houston Ship Channel, including the area's largest breakbulk facility and two of the most efficient container terminals in the country. Port Houston is the advocate and a strategic leader for the Channel. The Houston Ship Channel complex and its more than 200 public and private terminals, and is the nation's largest port for waterborne tonnage and an essential economic engine for the Houston region, the state of Texas and the U.S.

Port Houston Facts:

- Opened in 1914
- Handles more than 75% of the US Gulf container traffic
- Creates jobs and facilitates economic development

Houston Ship Channel Facts:

- A 52-mile-long channel, with more than 200 public and private facilities alongside it
- Busiest waterway in the nation
- Supports nearly 3.37M jobs nationwide



What is Maritime?

Maritime is something connected to the sea or waterways throughout the world, especially in relation to navigation, shipping, and marine engineering. Any land adjacent to the sea can also be considered maritime. Our everyday lives are affected by maritime and the industries that support the movement of cargo and waterborne commerce.

FOUR SECTORS OF THE MARITIME INDUSTRY



PORTS & LOGISTICS

Ports and maritime-related transportation logistics move everything we use as a society from the location of raw materials, to areas of production and finally to market where the goods are sold. Our ports and transportation systems are intermodal—moving from ship to train to the roads on semi-trailers and back again. We move raw materials and finished goods to be sold to all corners of the globe. The transportation and logistics industry are dynamic places to work where change is the constant.



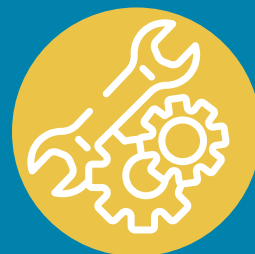
MARINER & SEA-GOING

There are many careers that will allow you to have an interesting and dynamic career—while traveling the world on the high seas. Everything from maintaining massive engines that power large ships, to piloting vessels or cooking meals for those on board. Some jobs require specific Coast Guard certifications and study through our nation's maritime institutions while others require a passport, security clearance and a willingness to work.



CRUISE SHIPS & RECREATIONAL BOATING

The cruise industry is a highly profitable international activity, and the fastest growing sector of the travel, tourism and leisure industry. The area of recreational boating is no different. There is a large industry in the United States that designs, produces, repairs and maintains cruise ships and yachts. Mechanics, designers, engineers, service technicians and marina personnel all work to keep the cruise and recreational boating industry moving to destinations all over the world.



SHIPBUILDING & SHIP REPAIR

The shipbuilding and ship repair industries are some of our nation's largest and most dynamic employers. These industries build and repair all types of sea-going vessels from aircraft carriers to submarines, from cargo ships to tugs and barges. This industry takes on large-scale projects that need a workforce that is flexible, dynamic and motivated. Careers in shipbuilding and ship repair provide skilled workers with an excellent wage and career opportunities.

JOBS FOUND AT PORT HOUSTON

Business & Commercial

- Business Equity Manager
- Business Process Manager
- Certification Specialist
- Economic Development Manager
- Grants Program Manager
- Project Controls Analyst
- Real Estate Manager
- Trade Manager

Channel Infrastructure

- Asset Management Analyst
- Geographic Information Systems Analyst
- Geographic Information Systems Technician
- Real Property Manager

Engineering

- Electrical Engineer
- Field Engineer
- Production Engineer

Environmental Affairs

- Environmental Compliance
- Environmental Planning Analyst
- Sustainability Manager

External Affairs

- Community Relations
- Government Relations
- Media & Public Relations
- Workforce Development
- Public Affairs

Finance

- Accountant
- Auditor
- Contract Administrator
- Contract Manager
- Controller
- Customer Billing Services
- Financial Analyst
- Procurement Analyst
- Treasury Manager

Human Resources

- Benefits Administrator
- Compensation Manager
- Corporate Strategy
- Employee Development & Engagement
- Talent Manager

Information Technology

- Applications Analyst
- IT Administrator
- Network Engineer
- Security Engineer
- Support Technician
- Systems Developer

Legal

- Attorney
- Compliance Analyst
- Paralegal
- Records Manager

Maintenance

- Electrician
- HVAC Technician
- Inventory Manager
- Mechanic
- Plumber
- Welder

Marketing

- Communications Specialist
- Digital Marketing
- Graphic Designer

Maritime Operations

- Barge Planner
- Captain
- Deckhand
- Maritime Operations Trainer
- Merchant Mariner
- Vessel Coordinator
- Vessel Mechanic

Port Infrastructure

- Facility Planning
- Project Manager

Port Operations

- Container Operation
- Crane Operator
- Crane Technician
- Customer Service Coordinator
- Gate Manager
- Logistics Coordinator
- Operations Superintendent
- Terminal Operations

Project Management & Construction

- Project Manager
- Construction Manager
- Construction Inspector
- Surveyor

Risk

- Claims Analyst
- Risk Manager
- Terminal Safety Manager

Security & Emergency Operations

- Captain Fireboat
- Customs & Border Protection Officer
- Firefighter
- Police officer
- Port Security Officer
- Telecommunications Officer

Transportation

- Dredge Boat Operator
- Freight Mobility
- Transportation Clerk
- Truck Driver & Loader
- Vessel Pilot

As a major source of jobs for the region, Port Houston has a strategic stake in the development of a robust maritime workforce. We commit to this development through several activities including:

Maritime Education Program

In recent years, Port Houston has invested more than \$5 million dollars in the maritime education program through collaboration with local academic partners. Benefits of the program include dual credit courses, industry-specific certifications, field trips, workshops, seminars, internships, and scholarship opportunities.

Career Exploration & Workforce Development

The maritime industry has numerous high-wage, high-demand regional job opportunities. Career exploration allows us an opportunity to assist students in discovering their interests and matching them with opportunities available to them after graduation. In addition, students learn what level of education, work experience, and professionalism they need to succeed in their chosen career.

Port of Houston Partners in Maritime Education (PHPME)

For the past decade, Port Houston has led an alliance of industry, business, community, and academic stakeholders, as well as local state and federal entities, to address the need for a well-trained talent pool of future maritime leaders.

With these initiatives, our primary goals are:



Introduce

an increasing number of youth and young adults to maritime career opportunities in port-related industries



Encourage

higher education in the Maritime Science, Logistics, Transportation, Distribution, and other related fields of study, such as Security, Environment, and Global Supply Chain



Develop

partnerships between industry and academic institutions to create relevant education programming that is consistent with industry needs

Academic partners include:

- Aldine ISD
- Galena Park ISD
- Goose Creek CISD
- Hitchcock ISD
- Houston ISD
- La Porte ISD
- Pasadena ISD
- Texas City ISD
- Houston City College
- Lee College
- Lone Star College
- San Jacinto College
- Texas A&M University Galveston
- Texas Southern University
- University of Houston
- University of Houston-Downtown



Your Path to Success

1

OBTAIN

new skills that will benefit your future.

2

TRAIN

for a career you're passionate about.

3

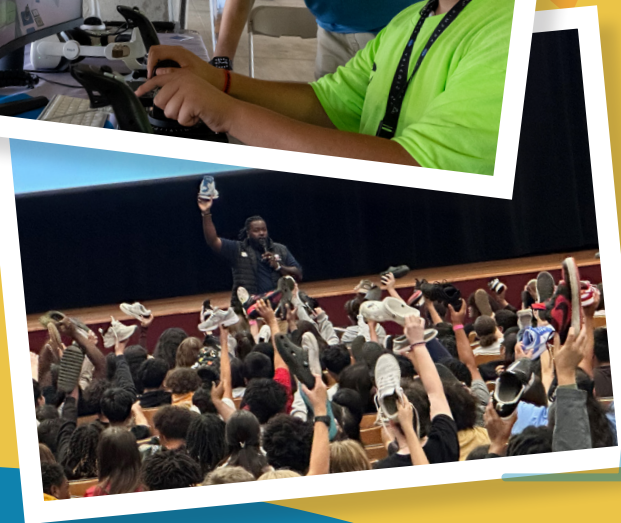
CONNECT

with the right people and resources.

Embark on a sea of possibilities...
Your Journey Starts Here!

Opportunities Include:

- Maritime and Logistic Career Exploration
- PTO/Parent Engagement
- Career & Technical Education Recruiting
- Career Fairs
- Middle School Field Day
- Classroom Support
- Industry Collaboration
- Educational Boat Tour
- Professional Development
- Guest Speaker



MIDDLE SCHOOL

Whether you decide to enter the workforce, get an apprenticeship, or attend college or university, there is a pathway for you.

HIGH SCHOOL

Choose your path

PATHWAY

1

MARITIME & LOGISTICS

Attend one of the regional designated High School Maritime & Logistics programs within Aldine, Galena Park, Goose Creek, Hitchcock, Houston, La Porte, Pasadena, and Texas City.

Programs Focus On:

- Marine Science
- Transportation, Distribution, and Logistics
- Shipboard Engineering
- Port Operations
- Law Enforcement

Program Benefits:

- Dual Course Credits
- TWIC Card
- CPR Certification
- Forklift Certification
- Basic Boating Certificate
- OSHA 10 Hour General Safety Certification
- Certified Logistics Associate (CLA) Certification
- Field Experiences
- Paid Internships
- College Scholarships

PATHWAY

2

CAREER & TECHNICAL

Enroll in one of the following Career and Technical Education (CTE) programs within your local school district. Some programs may offer certificates upon completion.

CTE Program Options

- Transportation, Distribution, and Logistics
- Mechanic / Diesel Technology
- Drafting / Design
- Construction Technology
- Electrical
- Robotics
- Welding
- Culinary
- Information Technology
- Business Management
- Criminal Justice
- Engineering

PATHWAY

3

DUAL-CREDIT

Each school district offers a variety of S.T.E.A.M. dual-credit courses. Make sure that the Dual-Credit courses you are taking are transferable to the college/university of your choice. Talk to your counselor about your Dual-Credit options.

Dual-Credit Courses

- Algebra I
- Algebra II
- Biology
- English Composition I
- English Composition II
- Chemistry
- Computer Science
- Geometry
- Business Math
- Psychology

POST-HIGH SCHOOL OPPORTUNITIES

Your path
is yours
to choose!



ENTRY-LEVEL WORKFORCE

Enter the workforce in one of the four Maritime Industry Segments:

- Port Operations and Logistics
- Shipbuilding and Ship Repair
- Mariners and Sea-going
- Cruise Ship and Recreational Boating

Some Entry Level Opportunities Include:

- Deckhand
- Ordinary Seaman
- Utility Worker
- Steward Assistant
- Forklift Operator
- Freight/Material Mover
- Logistics Coordination
- Longshoreman
- General Labor
- Inventory Clerk



APPRENTICESHIP

Registered Apprenticeship Programs

Port Houston

(On-the-Job Training and Classroom Instruction)

- Electrician
- Mechanic
- Crane Technician

Paul Hall Center of Maritime Training & Education

(One-year Training Program/First Job Guarantee)

- Able Seafarer-Deck
- Engineer
- Steward



COLLEGE

Certificate/AAS Degree/AS Degree
BS Degree



UNIVERSITY

BA/BS/BAS/Master's/PhD



MARITIME ACADEMY

The USMMA and six maritime academies meet the need by educating young men and women for service as officers in the United States Merchant Marine, U.S. Armed Forces, and Nation's Intermodal Transportation System:



“Mentorship isn’t just about guidance, it’s about legacy. Through Port Houston’s maritime education program, I have the privilege of inspiring the next generation to see beyond today and step into a future of limitless potential. The maritime industry isn’t just a career; it’s a calling. If you have the ambition to succeed, this industry will open doors to a lifetime of opportunity, growth, and impact.”

Nathan Fabian
Director, Port Cranes



“My journey started through public education at Pasadena’s Kirk K. Lewis Career & Technical High School, a four-year Maritime education program, leading to an internship at Port Houston. This experience resulted in a full-time employment opportunity at the Sam Houston. My time here is of great value for myself and my family by providing friendships that will last a lifetime. Port Houston opens many doors, not only for those who are already in the workforce, but are also beginning their career like me.”

Eliseo Garcia
M/V Sam Houston Deckhand II



“Back in high school, I never thought my interest in engineering would lead me to working on massive cranes in the maritime industry. Now, I help keep the flow of global trade moving, and every day presents a new challenge to tackle. The journey from the classroom to the docks has been tough, but it’s incredibly rewarding to see the impact of my work. If you’re passionate and determined, this industry will give you the chance to build something meaningful for your family and rise to new heights.”

Andrew Moreno
Barbour’s Cut Apprentice Crane Technician



“The San Jacinto College Maritime program started my maritime journey, while Port Houston helped build on that foundation through my first internship. Since beginning my career with Port Houston, I have gained invaluable knowledge of the maritime, distribution, and logistics industries and developed a deeper appreciation for the vital role maritime operations play in driving economic growth throughout our region.

The maritime program allowed me to earn my bachelor's degree in occupational safety, while advancing to the role of chief engineer aboard Port Houston's M/V Sam Houston tour vessel. My journey is an example of the power of education, mentorship, and hands-on experience. The opportunities I received through San Jacinto College and Port Houston not only shaped my career but also inspired me to continually learn, grow, and contribute to an industry that connects communities and drives economic prosperity.”

Jennifer Williams-Alcia

Marine Vessel Mechanic I



“My journey into the maritime industry began with the maritime program at Texas Southern University. This program sparked my interest and helped me gain a true appreciation for both the maritime industry and the community it serves. It provided me with invaluable experiences and career opportunities, ultimately leading to my position at Port Houston. I am sincerely grateful to all those who contributed to my path and helped shape my future success through both educational and professional opportunities.

If I could offer any advice to future maritime students, it would be to stay open-minded and curious, and to look and think outside the box. The maritime industry is far-reaching and offers a variety of employment opportunities depending on your interests.”

Anthony Flenoy

Facility Security Manager



To learn more about Port Houston's
Education Outreach initiatives,
please contact:

Call 713-670-2806

Email MaritimeEd@porthouston.com

www.porthouston.com

