

Maritime Life! Board Game

An Interactive Career Exploration Module for High School
(Grades 9-12)



Additional modules can be found at:
www.maritime-technology.org



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Learning Outcomes

- Students will gain an understanding of career options in the maritime industry.
- Students will be able to develop topic relevant vocabulary as related to the maritime industry.
- Students will be able to identify and compare career pathways including community and 4 year colleges, military, and entry level work.
- Students will be able to identify the impact of continuing education opportunities on available jobs and salary.
- Students will begin to explore the idea of their desired future careers.

Learning Expectations

Delivery: The content will be presented in the form of a board game. Students will take a pre-assessment post-assessment to gauge increase in knowledge.

Time: 90 minutes. Each quiz should take 10 minutes, the board game should take 30 minutes, and the class discussion should take 20 minutes.

Grade Level: 9-12th grade

Subject Area: Career Pathways, specifically those in the maritime and transportation industries.

Materials Needed: Maritime Life game board, game instructions, College Cards, Career Job Cards, College Job Cards, Continuing Education Cards, printable play money or a calculator, game pieces, scissors, writing utensil, pre-assessment, post-assessment, and classroom activity questions.

Set Up: Print all game items. Print College Cards, Career Job Cards, College Job Cards, Continuing Education Cards, and money two sided with corresponding labels. Cut out cards and game pieces and arrange game board in correct order.

Objectives

- Students will be able to identify multiple career options in the maritime industry including the areas of ship maintenance and modernization, vessel operations, and port operations and marine logistics.
- Students will be exposed to and be able to recite topic relevant vocabulary as related to the maritime industry.
- Students will be able to identify the starting and transitional points of career pathways of community and 4 year colleges, military, and entry level work.
- Students will be able to recite 3 continuing education opportunities for the maritime and transportation industry.

Objectives (continued)

- Students will identify work related activities and expenses such as fees, healthcare, and childcare costs.
- Students will construct a list of questions they want to research for further related career exploration.

Activities

1. *Pre-Assessment*: Students will complete the pre-assessment to determine a baseline knowledge of careers and educational pathways available in the maritime and transportation industry.
2. *Maritime Life*: Students will play a board game to increase their knowledge of careers and pathways in the maritime and transportation industry.
3. *Post-Assessment*: Students will complete a post-assessment to determine increase from baseline knowledge.
4. *Class Activity*: Students will engage in a classroom activity to review what was learned and what further action is desired to be taken in the student's career research.

Learning Standards Met (from Commonwealth of Virginia Standards of Learning)

Economic and Personal Finance Standards of Learning (SOLs)

EPF. 4 The student will demonstrate knowledge that many factors affect income by

- a) Examining the market value of a worker's skills and knowledge.
- c) Explaining the relationship between a person's own human capital and the resulting income potential.
- d) Describing how changes in supply and demand for goods and services affect income.

EPF.15 The student will demonstrate knowledge of income earning and reporting by

- a) Examining how personal choices about education, training, skill development, and careers impact earnings.
- b) Differentiating among sources of income.
- d) Investigating employee benefits and incentives.

Family Life Standards of Learning (SOLs)

9.14 The student will begin to identify educational and career goals.

10.8 The student will examine factors to be considered in life-goal planning.

12.12 The student will prepare a plan for the fulfillment of lifelong goals.

Learning Standards Met (from Virginia SOLs) – continued

Standards for School Counseling Programs in Virginia Public Schools

HA2. Understand the variety of post-secondary options available to them and the requirements of those options including the relationship of academic status and scholastic record.

HA3. Demonstrate the knowledge and skills necessary to ensure a successful transition from high school to post-secondary options.

HC1. Understand the value of ethical standards and behaviors in education and the workplace

HC2. Understand how changing economic and societal needs influence employment trends and future training

HC3. Understand how work and leisure interests can help to achieve personal success and satisfaction.

HC4. Understand how the changing workplace requires lifelong learning, flexibility, and the acquisition of new employment skills.

HC5. Understand that behaviors such as punctuality, courtesy, proper dress and language, and hard work are essential to success in the job market.

HC10. Demonstrate knowledge of the current job market trends.

Workplace Readiness Skills for CTE Courses

14. Demonstrate job-acquisition and advancement skills

Pre-Assessment (5 points each)

1. What are 4 occupations available for those seeking to be employed in the maritime industry?

- 1.
- 2.
- 3.
- 4.

2. Describe 2 types of educational programs available to those interested in being employed in the maritime industry.

- 1.
- 2.

3. Provide an example of the starting salary of an employee with a HS diploma or GED.

\$ _____ per year

4. Provide an example of the starting salary of an employee with college training.

\$ _____ per year

5. What is one way an employee in the maritime industry can increase their salary?

- 1.

6. What are 2 perks of working in a full-time job in the maritime and transportation industry?

- 1.
- 2.

7. What are 2 ways to get a warning or get terminated from a job in the maritime and transportation industry?

- 1.
- 2.

8. Name 3 local employers in the maritime or transportation industry.

- 1.
- 2.
- 3.

Pre Assessment (continued)

9. Name 2 ways to attend college for free for training in the maritime and transportation industry.

- 1.
- 2.

10. Describe what apprentice training is. Be sure to include educational costs and work expectations.
(10 points)

Post Assessment (5 points each)

1. What are 4 occupations available for those seeking to be employed in the maritime industry?

- 1.
- 2.
- 3.
- 4.

2. Describe 2 types of educational programs available to those interested in being employed in the maritime industry.

- 1.
- 2.

3. Provide an example of the starting salary of an employee with a HS diploma or GED.

\$ _____ per year

4. Provide an example of the starting salary of an employee with college training.

\$ _____ per year

5. What is one way an employee in the maritime industry can increase their salary?

- 1.

6. What are 2 perks of working in a full-time job in the maritime and transportation industry?

- 1.
- 2.

7. What are 2 ways to get a warning or get terminated from a job in the maritime and transportation industry?

- 1.
- 2.

8. Name 3 local employers in the maritime or transportation industry.

- 1.
- 2.
- 3.

Post Assessment continued

9. Name 2 ways to attend college for free for training in the maritime and transportation industry.

- 1.
- 2.

10. Describe what apprentice training is. Be sure to include educational costs and work expectations.
(10 points)

Teacher Answer Key

All answers listed in the key are found during game play. Other answers may be accepted at the teacher's discretion.

1. What are 4 occupations available for those seeking to be employed in the maritime industry?

Electrician, Marine Diesel Mechanic, Enlisted Sailor, Food Service and Hospitality Sailor, Crane and Tower Operator, Pipe Fitter, Shipping, Receiving, and Traffic Clerk, Ordinary Seaman, Able Seaman, Unlicensed Junior Engineer, Qualified Member of the Engine Department (QMED), Welder, Industrial Engineer, HVAC Mechanic and Installer, Human Factors Engineer and Ergonomist, Second Mate, Navy Officer, Chief Engineer, Stage and Distribution Manager, and Enlisted Transportation Officer.

2. Describe 2 types of colleges or educational programs available to those interested in being employed in the maritime industry.

Tidewater Community College, SUNY Maritime College, US Merchant Marine Academy, and Mid Atlantic Maritime Academy

3. Provide an example of the starting salary of an employee with a HS diploma or GED.

Between \$22,000 and \$45,000 per year

4. Provide an example of the starting salary of an employee with college training.

Between \$42,000 and \$80,000 per year

5. What is one way an employee in the maritime industry can increase their salary?

Obtain an industry credential such as DOL Journeyman, continuing education such as a certificate or degree, and job promotions to supervisor or manager

6. What are 2 perks of working in a full-time job in the maritime and transportation industry?

Health insurance, paid days off, using skills to save money on household tasks, using skills to earn extra money on side jobs, and promotion opportunities

7. What are 2 ways to get a warning or get terminated from a job in the maritime and transportation industry?

Being late, missing work, and fail drug screening

8. Name 3 local employers in the maritime or transportation industry.

BAE Shipyard, Ocean Marine Yacht Center, The Port of Virginia, OCEANEERING, AMSEC, Elizabeth River Ferry, Carnival Cruise Line, U.S. Navy, Colona's Shipyard, and Norfolk Naval Shipyard.

Teacher Answer Key (continued)

9. Name 2 ways to attend college for free for training in the maritime and transportation industry.

College scholarship, attend a US Merchant Marine Academy and owe service to the armed forces, be selected for an apprenticeship

10. Describe what apprentice training is. Be sure to include educational costs and work expectations. (10 points)

You work for pay during the day and attend college at night at no cost to obtain a Trades Technician Studies Certificate

Classroom Discussion Questions

Was anything you learned today new or surprising to you?

Has your opinion of those employed in the shipyard changed? If so, how?

What are some new terms you learned today? Are there terms you need clarification on, such as TWIC Card?

Does anyone know someone employed in this industry? Tell us about their work.

What are some new career options you learned about today?

Do any of these careers interest you as a possible job?

What type of educational path would you need to take to get employed in that job? If you aren't sure, where can you go for assistance?

If you worked in this industry, do you think you'd prefer to stay in a job or go back for continuing education? What would be the advantages and disadvantages to your choice?

Take a few moments to write down a list of questions you want to research further about this industry or your own career exploration.

References

General Information

<http://www.maritime-technology.org/>

Training

<http://www.tcc.edu/about-tcc/apprenticeship-institute/nnsy>

http://marinercareers.com/index.php?option=com_wrapper&view=wrapper&Itemid=115

<http://www.tcc.edu/academics/maritime-logistics>

<http://www.tcc.edu/academics/maritime-logistics/programs/diesel-marine-technician-career-certificate>

<http://www.tcc.edu/academics/maritime-logistics/programs/maritime-logistics-management-degree>

<http://www.tcc.edu/academics/maritime-logistics/programs/maritime-welding-career-certificate>

<https://www.usmma.edu/admissions/admissions-a-to-z>

<http://www.sunymaritime.edu/studentaccounts/costofattendance>

<http://www.sunymaritime.edu/Academics/Undergraduate%20Programs/index>

<http://www.sunymaritime.edu/Academics/Graduate%20Program/index>

https://www.odu.edu/content/odu/academics/programs.html#program_type=.bachelors

Careers

<https://www.navy.com/careers/business-legal/food-services-hospitality.html#ft-key-responsibilities>

<https://www.navy.com/joining/benefits/pay.html>

<http://gohrt.com/services/ferry>

http://www.amsec.com/AMSEC_Web/Capabilities/LogisticsMain.html

<http://www.oceanering.com/careers/recent-college-graduates-and-interns>

<http://www.portofvirginia.com/about/careers>

<http://www.oceanmarinellc.com/employment>

<http://www.baesystems.com/en-us/careers>

<http://www.navsea.navy.mil/Career-Opportunities/NAVSEA-Careers>

<https://www.navy.com/careers/business-legal/purchasing-supply-logistics.html#ft-key-responsibilities>

<http://www.colonnaship.com/employment.html>