
Lesson One

Welcome Aboard: An Introduction to Marine Transportation Careers

Objectives

List of Teaching/Learning Resources

The Lesson Plan

Alternate or Additional Activity

Print Resources

Sea for Yourself Pre-Test

Sea for Yourself Post-Test (and Answer Key)

Sea Search Marine Transportation Careers Puzzle
(and Answer Key)

PowerPoint Presentation (hard copy)

PowerPoint Presentation with Teacher Notes
(hard copy)

Sea for Yourself: Lesson One

Title: Welcome Aboard: An Introduction to Marine Transportation Careers

Objectives:

Students will be able to

1. assess their knowledge and understanding of marine transportation careers
2. identify a number of marine transportation careers
3. identify marine education/training institutions in Atlantic Canada
4. discuss the key benefits associated with marine transportation careers

Teaching/Learning Resources:

- *Sea for Yourself* Pre-test
 - *Sea for Yourself* Post-test (and Answer Key)
 - *Sea for Yourself* DVD (Appendix C)
 - *Sea Search* Marine Transportation Careers Puzzle (and Answer Key)
 - Lesson One PowerPoint Presentation*
 - Lesson One PowerPoint Presentation with Teacher Notes*
- * Hard copies are included in this section; electronic copies are provided in Appendix C and on the COMPASS website.

The Lesson Plan

Opener/Attention Getter:

1. Have students complete the *Sea for Yourself* Pre-test to determine their *current* knowledge and understanding of marine transportation careers.
2. Have students put the tests face down on their desks until the end of class.

Lesson Body:

Teacher Presentation

1. Deliver Lesson One PowerPoint Presentation to provide an introduction to and spark discussion about marine transportation careers.
2. Show the *Sea for Yourself* DVD (Appendix C) to reinforce the key messages conveyed in the slide show.

Student Activity:

1. *Sea for Yourself* Post-test
 - Administer the post-test.
 - Have students correct the pre-test and post-test simultaneously and compare their scores on the two tests.
 - Discuss the test results (knowledge gained, impressions changed, etc.).
2. Have students complete the *Sea Search* Marine Transportation Careers Puzzle. (If unfinished, complete as homework.)

Have students include both pre- and post-tests and their completed puzzles as *Sea Chest: Entry One* of their Course Content Portfolios.

Alternate or Additional Activity:

Search a Sea Word Puzzle or *Look and Sea Puzzle*

Have students brainstorm a list of nautical terms (words associated with marine transportation careers, such as captain, deckhand, anchor, compass, etc.) and use those terms to create a *Search a Sea Word Puzzle* for junior high students or a similar *Look and Sea Puzzle* for elementary students.

These puzzles can then be passed along to the appropriate teachers for use with their students.

Have students include their puzzles as *Sea Chest: Entry One* of their Course Content Portfolios.

Sea for Yourself: Pre-test

Let's See What You Know About Marine Transportation Careers

1. List as many marine transportation careers as you can.

2. If you choose a marine transportation career, what post-secondary schools in Atlantic Canada might you attend?

3. If you entered the workforce as an entry level marine engineer at age 21, at approximately what age could you be a first class engineer?
 - a. Age 29
 - b. Age 33
 - c. Age 37
 - d. Age 41

4. Which of the following levels of certification do training programs for ships' officers in Newfoundland and Labrador award?
 - a. A diploma
 - b. A degree
 - c. Both a and b

5. Approximately what percentage of graduates from ships' officer training programs in Newfoundland and Labrador find work in their field?
 - a. 50%
 - b. 70%
 - c. 80%
 - d. 100%

6. How do salaries in marine transportation careers compare to salaries of occupations that require similar education in other career areas?
 - a. Marine transportation career salaries are lower than average.
 - b. Marine transportation career salaries are slightly lower than average.
 - c. Marine transportation career salaries are higher than average.
 - d. Marine transportation career salaries are considerably higher than average.

7. For each month worked, ships' officers typically have how much time off?
 - a. 1 week
 - b. 2 weeks
 - c. 3 weeks
 - d. 1 month

8. Most people who work at sea in marine transportation careers
 - a. must live wherever the company is based.
 - b. can work anywhere and continue to live in Newfoundland and Labrador.
 - c. must relocate to different work sites.

9. Which statement conveys the most current information about women in marine transportation careers?
 - a. At-sea marine transportation careers are not open to women.
 - b. Women can work at sea in certain occupations, such as cooks, etc.
 - c. This is a new era for women in the marine transportation industry; they can pursue any career they choose.

10. The most critical shortage of marine transportation personnel in eastern Canada is
 - a. Naval Architects.
 - b. Marine Engineers.
 - c. Navigation Officers.
 - d. Marine Systems Designers.

11. If you pursue a career in marine transportation, where could you work?
 - a. On a vessel
 - b. On an oil rig
 - c. On shore
 - d. All of the above
 - e. Both a and b

12. An Engineering Officer who has a First Class Engineering ticket (top in this field) can expect to earn an annual salary in the following range:
 - a. \$75,000 – \$150,000+
 - b. \$70,000 – \$100,000
 - c. \$60,000 – \$75,000

13. The Marine Institute is
 - a. a trades school.
 - b. a part of Memorial University.
 - c. a college that trains marines.
 - d. neither of the above.

Sea for Yourself: Post-test

Let's See What You **NOW** Know About Marine Transportation Careers

1. List as many marine transportation careers as you can.

2. If you choose a marine transportation career, what post-secondary schools in Atlantic Canada might you attend?

3. If you entered the workforce as an entry level marine engineer at age 21, at approximately what age could you be a first class engineer?
 - a. Age 29
 - b. Age 33
 - c. Age 37
 - d. Age 41

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 - d. neither of the above.

Sea for Yourself: ANSWER KEY

Let's See What You Know About Marine Transportation Careers

1. List as many marine transportation careers as you can.
 - **See Lesson One PowerPoint Presentation - Slide 4.**

2. If you choose a marine transportation career, what post-secondary schools in Atlantic Canada might you attend?
 - **Marine Institute**
 - **Canadian Coast Guard College**

3. If you entered the workforce as an entry level marine engineer at age 21, at approximately what age could you be a first class engineer?
 - a. **Age 29**
 - b. Age 33
 - c. Age 37
 - d. Age 41

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 - b. A degree
 - c. **Both a and b**

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 - d. **100%**

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 - a. Marine transportation career salaries are lower than average.
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 - d. **Marine transportation career salaries are considerably higher than average.**

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 - Both a and b
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 - a college that trains marines.
 - neither of the above.

Sea Search: Marine Transportation Careers Puzzle

D F A C S U P E R I N T E N D E N T F D
 E N O H J R K L I C B E E N P I E R L A
 E W E A R D D N A H K C E D O M A M E N
 R A E M P L T H A M U D O N P W J A E H
 N A V A L A R C H I T E C T E G F S T E
 A M A R I N E E N G I N E E R I D T M A
 I E C B H A I N T C T A B J A N M E A D
 C C A I V I T A M A Y A D S T G L R N P
 I H T G A F O R L I K F T F O M P M A O
 N A D R A F T S P E R S O N R E R A G R
 H N A O N A N D R O R E L S T E R R E T
 C I M T M R S E N D O R D A G N A I R S
 E C A A A C S C L E U F M A N N D N R I
 T W R R N R E A D S O G N M E F I E O D
 L E A E U B A O R F N A A L U C O R T L
 A A N P U W V N X I M B X R R G O Y A E
 C T C O O K L F P R S V N Y K F P R R D
 I H D E P D N E H S S D F G H J E K E W
 R U I N U F E W E T C A T E R E R R P E
 T P J A T K R T Y M U I O P J H A H O I
 C Y A R H Z X C V A V N M K J J T G V B
 E U M C E P O I U T E A R I T O O G O O
 L O T R A E C H I E F S T E W A R D R T
 E A O I S W A T C K E E P N G M A T E E
 W I L M E E D E K H N D M E C H A N I M

DIRECTIONS: Circle the marine transportation career/job titles in the puzzle. Words may be vertical, horizontal, diagonal, backwards, etc. Two-word career/job titles are run together in the puzzle; that is, no space is left between the words. Good luck!

CATERER
CHIEF STEWARD
COOK
CRANE OPERATOR
DECKHAND
DP OPERATOR*
DRAFTSPERSON
ELECTRICAL TECHNICIAN
FIRST MATE
FLEET MANAGER

HR MANAGER**
MARINE ENGINEER
MASTER MARINER
MECHANIC
NAVAL ARCHITECT
PURSER
RADIO OPERATOR
ROV OPERATOR***
SUPERINTENDENT
WATCHKEEPING MATE

* DP = Dynamic Positioning
 ** HR = Human Resources

*** ROV = Remotely Operated
 Vehicle

Sea Search: Marine Transportation Careers Puzzle
ANSWER KEY

D	F	A	C	S	U	P	E	R	I	N	T	E	N	D	E	N	T	F	D
E	N	O	H	J	R	K	L	I	C	B	E	E	N	P	I	E	R	L	A
R	W	E	A	R	D	D	N	A	H	K	C	E	D	P	M	A	M	E	N
N	A	V	A	L	A	R	C	H	I	T	E	C	T	E	R	G	F	S	T
A	M	A	R	I	N	E	N	E	N	G	I	N	E	R	A	I	D	M	A
I	C	H	A	V	I	T	A	M	A	C	T	A	B	J	A	N	M	T	E
C	E	C	A	B	I	O	R	L	I	K	F	T	S	F	O	R	M	P	M
I	N	A	D	R	A	F	T	S	P	E	R	S	O	N	R	E	R	A	R
H	C	I	M	O	N	A	N	D	R	O	R	E	L	S	T	E	R	R	E
C	E	I	A	R	M	R	S	E	N	D	O	R	D	A	G	N	N	D	I
T	W	R	A	R	N	R	E	A	D	S	O	G	N	M	E	F	I	N	E
L	A	N	P	U	W	V	N	X	F	I	N	B	X	R	R	G	O	Y	T
A	C	T	C	O	O	K	L	F	P	R	S	V	N	Y	K	F	P	R	A
C	I	H	D	E	P	D	N	E	H	S	S	D	F	G	H	J	P	E	R
R	U	I	N	U	F	E	W	E	T	M	U	I	O	P	J	H	A	H	P
T	P	J	A	R	H	Z	X	C	V	A	V	N	M	K	J	J	A	T	O
C	Y	A	R	C	E	P	O	I	U	T	E	A	R	I	T	O	R	G	V
E	U	M	C	E	P	O	C	H	I	E	F	S	T	E	W	A	R	D	O
L	O	T	R	A	E	C	H	I	E	F	S	T	E	W	A	R	D	R	R
E	A	O	I	S	W	A	T	C	K	E	E	P	N	G	M	A	T	E	M
W	I	L	M	E	E	D	E	K	H	N	D	M	E	C	H	A	N	I	M

DIRECTIONS: Circle the marine transportation career/job titles in the puzzle. Words may be vertical, horizontal, diagonal, backwards, etc. Two-word career/job titles are run together in the puzzle; that is, no space is left between the words. Good luck!

- | | |
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| <p>CATERER
CHIEF STEWARD
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ELECTRICAL TECHNICIAN
FIRST MATE
FLEET MANAGER</p> | <p>HR MANAGER
MARINE ENGINEER
MASTER MARINER
MECHANIC
NAVAL ARCHITECT
PURSER
RADIO OPERATOR
ROV OPERATOR
SUPERINTENDENT
WATCHKEEPING MATE</p> |
|---|---|