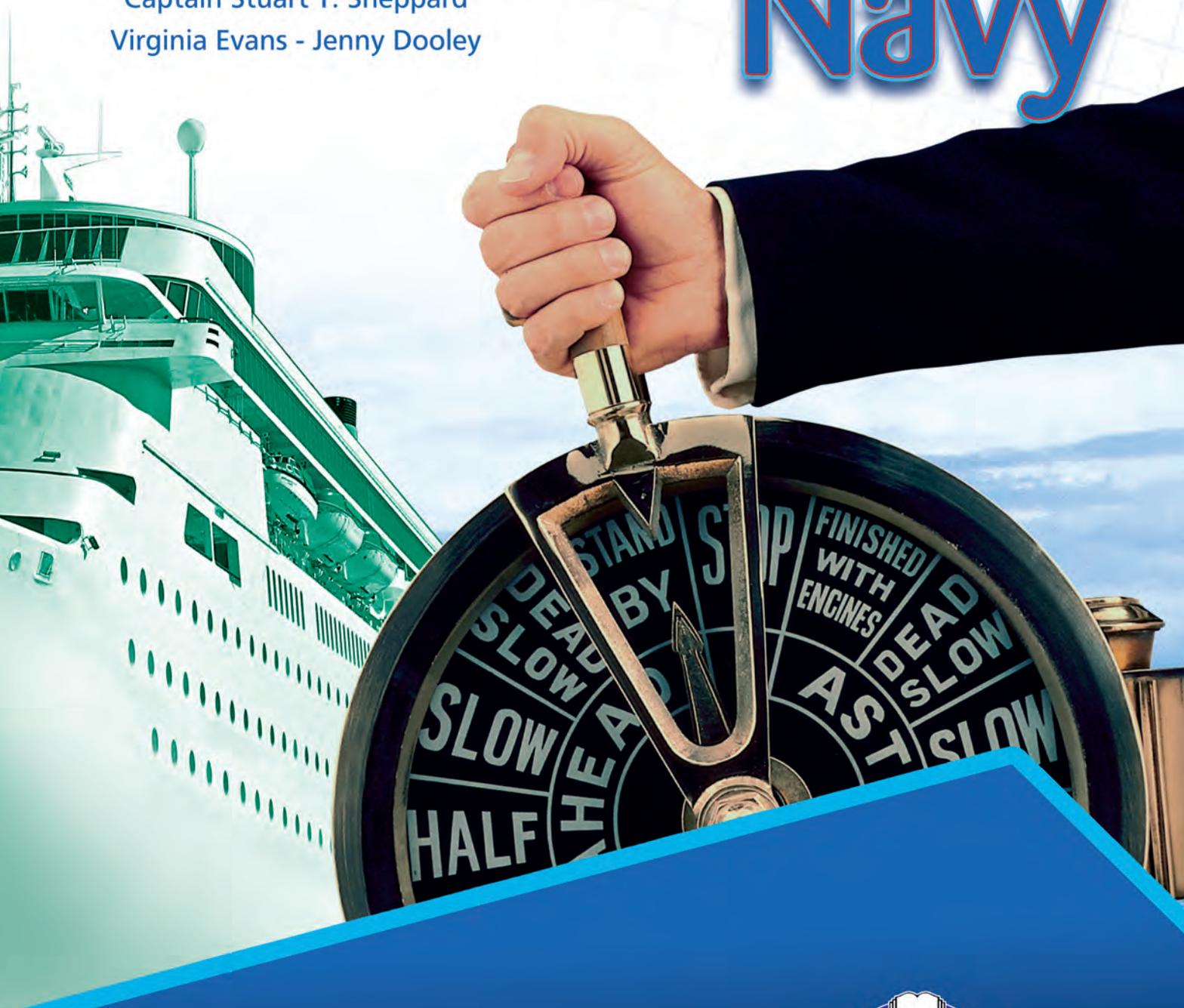


**CAREER  
PATHS**

# Merchant Navy

Captain Stuart T. Sheppard  
Virginia Evans - Jenny Dooley



Express Publishing

**CAREER  
PATHS**

# Merchant Navy

Book

1

Captain Stuart T. Sheppard

Virginia Evans

Jenny Dooley



**Express Publishing**

## Scope and Sequence

Unit	Topic	Reading context	Vocabulary	Function
1	Parts of a Ship: Exterior	Book chapter	bulwark, fantail, forecastle, hull, keel, mast, poop deck, propeller, screw, stem, sternpost, superstructure, waterline, weather deck	Describing duration
2	Parts of a Ship: Interior	Passage	bulkhead, compartment, deck, hatch, head, ladder, overhead, partition, passageway, watertight door	Giving directions
3	Ship Systems	Information sheet	compressed air system, drainage system, electrical system, fuel system, mooring system, potable water system, propulsion system, saltwater system, steering system, ventilation system	Providing options
4	Ship Stability	Passage	antiroll tank, athwartship, bilge keel, center of buoyancy, center of gravity, displacement, draft, longitudinal stability, stability, stabilizer wing, transverse stability, rim	Describing function
5	Nautical Directions	Newsletter	abaft, aft, astern, below, bow, forward, inboard, outboard, port, starboard, stern, topside	Ordering fast movement
6	Communications: Audio	Radio operator's guide	affirmative, I spell, negative, out, over, phonetic alphabet, prowords, radio communication, roger, say again	Asking for repetition
7	Communications: Visual	Article	directional method, flashing light, Morse code, non-directional method, radio failure, radio silence, semaphore, semaphore flag, signal lamp, visual communication	Stating a preference
8	Communications: Signal Flags	Instructions	halyard, identity signal, International Code of Signals, signal flag, single letter signal, tackline, three letter signal, two letter signal, urgent	Identifying an error
9	Nautical Measurements	Guide	cable, depth, distance, fathom, foot, gross ton, knot, nautical mile, speed, weight	Giving an estimate
10	The Crew	Job postings	AB, boatswain, chief cook, chief steward, maintenance, OS, steward's assistant, steward's department, watchstander, wiper	Describing lengths of time
11	Chiefs and Officers	Crew list	captain, chief engineer, chief officer, chief's ticket, deck department, engineering department, master, mate, second engineer, second officer	Identifying people
12	Canvas Work	Sailors guide	bolt, canvas, numbered duck, sew, stitch, thread, treated, warps, waterproof, welts	Describing steps
13	Painting	Poster	boot topping paint, bottom paint, flat brush, grinder, painting, primer, roller, rust, scraper, topside paint, touch up	Describing order
14	Ground Tackle	Textbook chapter	anchor, cable, chain, devil's claw, ground tackle, scope, shackle, shot, wildcat, windlass	Expressing uncertainty
15	Steering Gear	Memo	bow thruster, electrohydraulic, gyropilot, have the conn, helmsman, iron mike, on course, pilot house, rudder, steering gear, wheel	Giving steering commands

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**CAREER  
PATHS**

# Merchant Navy

Book

2

Captain Stuart T. Sheppard

Virginia Evans

Jenny Dooley



**Express Publishing**

## Scope and Sequence

Unit	Topic	Reading context	Vocabulary	Function
1	Tankers 1: Types	Information sheet	Aframax, chemical tanker, crude, crude tanker, DWT, liquefied gas tanker, LNG, LPG, OBO carrier, Panamax, product tanker, Suezmax, tanker, ULCC, VLCC	Introducing a point
2	Tankers 2: Loading and Discharging	Poster	cargo hose, cargo pump, cargo vapor, discharge, inert gas system, load, ship/shore checklist, spill, top off, transfer, valve, vent	Listing steps
3	Container Ships	Article	cargo crane, cargo hold, cell guide, container ship, feeder, feedermax, geared, gearless, hatch coaming, intermodal container, lashing system, ULCV	Describing experience
4	Wire	Chapter	core, fishhook, galvanized, kink, lay, length of the lay, seizing, splice, spool, strand, wear, wire rope	Asking for an opinion
5	Marlinespike Seamanship 1	Chapter	against the sun, bight, bitter end, coil, coil down, fake down, fiber rope, flemish down, line, marlinespike seamanship, part, take a turn, whipping, wire, with the sun	Giving a warning
6	Marlinespike Seamanship 2	Chapter	bend, bowline, breaking strain, hitch, knot, loop, parcel, secure, SF, spar, SWL, turn, worm	Describing consequences
7	Blocks and Tackles	Chapter	block, fall, fitting, frame, gun tackle, luff, purchase, runner, sheave, shell, single-whip, tackle, twofold purchase	Denying a suggestion
8	Loading Equipment	Website	crane, draft, forklift, gantry crane, gemini crane, on hand, rig, RO/RO, sling, swinging crane, truck lift, whirly crane, winch, yard hostler	Assigning responsibility
9	Cargo Handling and Storage	Poster	break bulk, broken stowage, currency, deck cargo, dunnage, dusty goods, explosives, grain, live cargo, odorous goods, shift, stowage	Agreeing with a plan
10	Mooring	Poster	belay, bitt, bollard, camel, cast off, cleat, closed chock, fender, heave around, mooring, mooring line, pier, roller chock, take in	Describing similar things
11	Anchoring	Chapter	anchorage, anchoring, aweigh, back down, chain stopper, fouled, hawsepipe, house, outboard swivel shot, shod, short stay, up and down, veer, weigh	Asking for repetition
12	Towing	Report	bull-nose, catenary, chafing chain, in step, pelican hook, towing, towing hawser, towing rig, towing-pad eye, towline, tug	Giving a reminder
13	Weather	Weather reports	fog, hail, hurricane, ice, icing, precipitation, rain, snow, swell, typhoon, wave, weather	Agreeing with a statement
14	First Aid	First aid guide	bandage, bleeding, blister, burn, chest compression, CPR, defibrillator, first aid, fracture, pulse, rescue breathing, shock, splint	Describing health or condition
15	The Day of an Officer	Journal	aboard, address, ashore, blind spot, breakdown lights, colors, escort, lookout, made fast, relieve, sweep, turnover, underway, watch for	Talking about future plans

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**CAREER  
PATHS**

# Merchant Navy

Book

**3**

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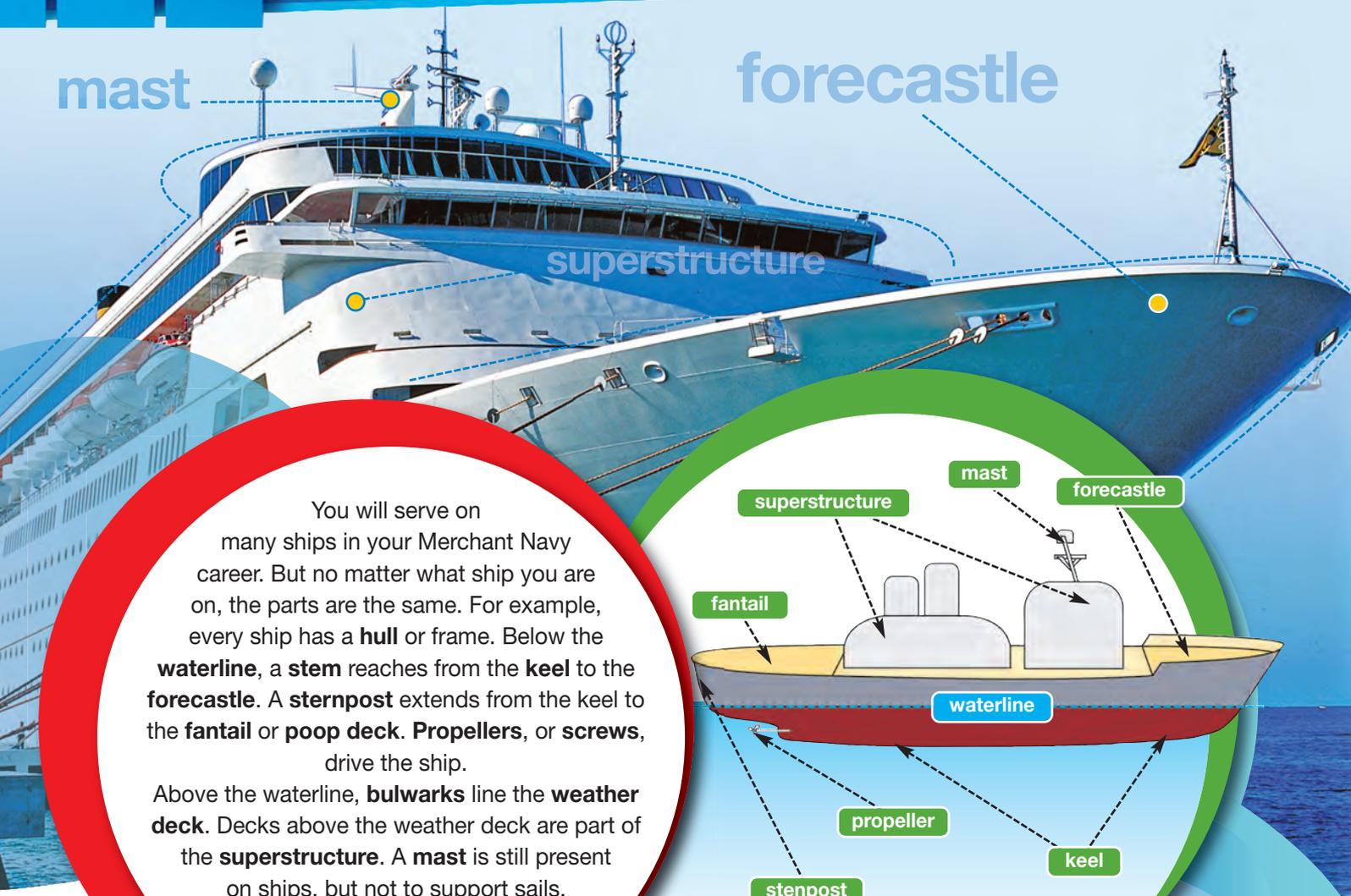
## Scope and Sequence

Unit	Topic	Reading context	Vocabulary	Function
1	Ship Business	Email	cargo ship safety construction certificate, certificate of documentation, certificate of financial responsibility, certificate of inspection, certificate of insurance, crew list, deadweight certificate, derat, international load line certificate, IOPP, register of cargo gear, shipping articles, tonnage certificate, tonnage tax receipts, TOVALOP	Estimating time
2	Log Books	Guide	bell book, conviction, course recorder, deck log, draft readings, heavy weather, injury, investigation, medical log, official logbook, oil record book, punishment, radio messages, test, wages	Disagreeing with a claim
3	Inspections	Email	boiler inspection, deficiency, drydock, embarked, inspection, interval, minimum manning certificate, seaworthy, stability letter, structural integrity, underwater survey, up-to-date, watertight integrity	Expressing reluctance
4	Drills and Station Bills	Chapter	alarm signal, article number, berth, blast, conspicuous, disaster, drill, emergency duty, life boat drill, life boat stations, muster list, station bill, whistle	Expressing surprise
5	Rules of the Road 1	Guide	avoid, blame, collision, COLREGs, high seas, IMO, International Rules, liability, Pilot Rules, regulations, rules of the road, underway, Unified Inland Rules	Checking for understanding
6	Rules of the Road 2	Article	apply, burdened, cross, evasive, give way, head on, privileged, responsible, right of way, stand on, vessel	Talking about risk
7	International Ports	Notice	clearance, contraband, courtesy flag, crew effects list, customs, customs seal, departure permit, foreign, gratuity, immigration officer, maritime declaration of health, port of call, quarantine, shot record, store list, visaed	Agreeing with an opinion
8	Safety	Poster	carbon dioxide, carbon monoxide, dogged, emergency escape, explosive, flashlight, gases, hooked, life preserver, ring buoy, SCBA, toxic, ventilate, water light	Stressing a point
9	Firefighting	Guide	classification (of fire), CO <sub>2</sub> , dry chemical fire extinguisher, fire extinguisher, fire hose, firefighting, fireman's outfit, fixed CO <sub>2</sub> system, flammable, lifeline, OATH, pull signals, sprinkler system, ventilation	Introducing bad news
10	Maintenance and Repair	Email	breakdown, coating, contractor, deteriorate, epoxy, grease, maintenance, oxidize, plastic coating, repair, rubberized coating, sea chest, sea valve, shore side, slushing, zinc	Making a recommendation
11	Survival Craft	Pamphlet	cradle, davits, double-ender, enclosed lifeboat, inflatable, launch, life raft, open lifeboat, rainwater collection device, releasing gear, sea anchor, signaling mirror, survival craft, survival equipment, survivor capsule	Giving deadlines
12	Elements of Navigation	Chapter	cardinal direction, chart, compass, compass rose, degrees, equator, knot, latitude, longitude, meridians, minutes, nautical mile, navigation, parallels, plot, pole, position, prime meridian, seconds	Confirming information
13	Navigation Methods	Chapter	bearing, celestial LOP, celestial navigation, dead reckoning, electronic LOP, electronic navigation, fix, GPS, LOP, piloting, radar, radio beacon, range, satellite, time, speed, and distance formulas	Asking for repetition
14	Navigation Instruments and Equipment	Guide	azimuth circle, bearing circle, divider, drafting compass, gyrocompass, magnetic compass, magnetic north, nautical slide rule, parallel plotter, parallel ruler, repeater, sextant, stadimeter, telescopic alidade	Identifying main ideas
15	Tides, Currents, and Winds	Report	apparent wind, Beaufort scale, current, drift, ebb, flood, high tide, low tide, relative velocity, set, tide, true wind, veer, wind, wind speed	Describing possible events

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# 1 Parts of a Ship: Exterior



You will serve on many ships in your Merchant Navy career. But no matter what ship you are on, the parts are the same. For example, every ship has a **hull** or frame. Below the **waterline**, a **stem** reaches from the **keel** to the **forecastle**. A **sternpost** extends from the keel to the **fantail** or **poop deck**. **Propellers**, or **screws**, drive the ship.

Above the waterline, **bulwarks** line the **weather deck**. Decks above the weather deck are part of the **superstructure**. A **mast** is still present on ships, but not to support sails. Modern masts carry flags and signal lights.

## Get ready!

- Before you read the passage, talk about these questions.
  - What are some exterior parts of a ship above the waterline?
  - What are some exterior parts of a ship below the waterline?

## Reading

- Read the chapter from a seaman's guide. Then, mark the following statements as true (T) or false (F).
  - \_\_\_ All ships have a keel below the waterline.
  - \_\_\_ The sternpost is above the weather deck.
  - \_\_\_ Modern masts hold sails.

## Vocabulary

- Match the words or phrases (1-8) with the definitions (A-H).

- |                 |                    |
|-----------------|--------------------|
| 1 ___ hull      | 5 ___ weather deck |
| 2 ___ mast      | 6 ___ propeller    |
| 3 ___ keel      | 7 ___ sternpost    |
| 4 ___ waterline | 8 ___ poop deck    |

- a part of a ship that extends from the keel along the rear of a ship
- a long, vertical beam that extends up from a ship
- the shell of a ship
- a long beam that runs along the bottom of a ship
- the level at which a ship's surface meets the water
- a device with rotating blades that drives a ship
- the top level of a ship that is exposed to air
- the rear part of a main deck

4 Read the sentence pairs. Choose which word best fits each blank.

1 **forecastle / fantail**

- A The \_\_\_\_\_ is located at the back end of a ship.  
 B The \_\_\_\_\_ is found at the front of a ship.

2 **screw / stem**

- A A \_\_\_\_\_ pushes a ship forward.  
 B The \_\_\_\_\_ extends from the keel to the front of a ship.

3 **bulwark / superstructure**

- A A \_\_\_\_\_ protects equipment and personnel on the weather deck.  
 B Any deck above the weather deck is part of the \_\_\_\_\_.

5 Listen and read the chapter from a seaman's guide again. Which part of the ship is between the keel and the forecastle?

## Listening

6 Listen to a conversation between two students. Choose the correct answers.

- 1 What is the conversation mainly about?  
 A a test on parts of a ship  
 B different visits to a ship  
 C parts of a ship below the waterline  
 D the functions of modern masts
- 2 What will the man most likely do tomorrow?  
 A climb a mast  
 B clean the weather deck  
 C tour the ship's superstructure  
 D learn about structures below the waterline

7 Listen again and complete the conversation.

- Student 1:** Hi Tom. Did your class 1 \_\_\_\_\_ ship today?  
**Student 2:** We did. But we didn't 2 \_\_\_\_\_.  
**Student 1:** That's too bad. 3 \_\_\_\_\_ did you see?  
**Student 2:** We never got below the weather deck. But I saw parts of the 4 \_\_\_\_\_.  
**Student 1:** My class saw that, too. One student climbed the 5 \_\_\_\_\_.  
**Student 2:** We're going back tomorrow. We'll get a lecture on the structure below the 6 \_\_\_\_\_.

## Speaking

8 With a partner, act out the roles below based on Task 7. Then, switch roles.

### USE LANGUAGE SUCH AS:

- Did your class ...?*  
*We never ...*  
*We'll get a lecture on ...*

**Student A:** You are a student. Talk to Student B about:

- a recent class
- parts of a ship you saw
- what you will see tomorrow

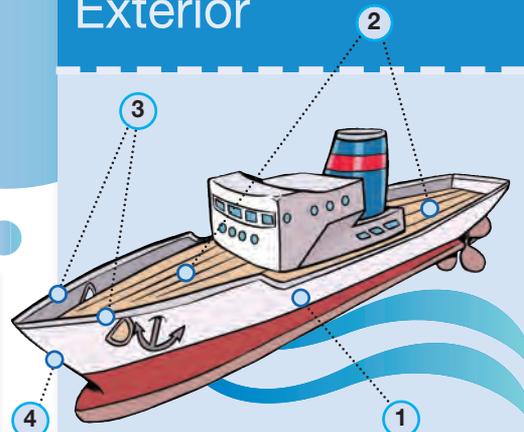
**Student B:** You are a student. Talk to Student A about a visit to a ship.

## Writing

9 Use the chapter from a seaman's guide and the conversation from Task 8 to fill out the diagram.

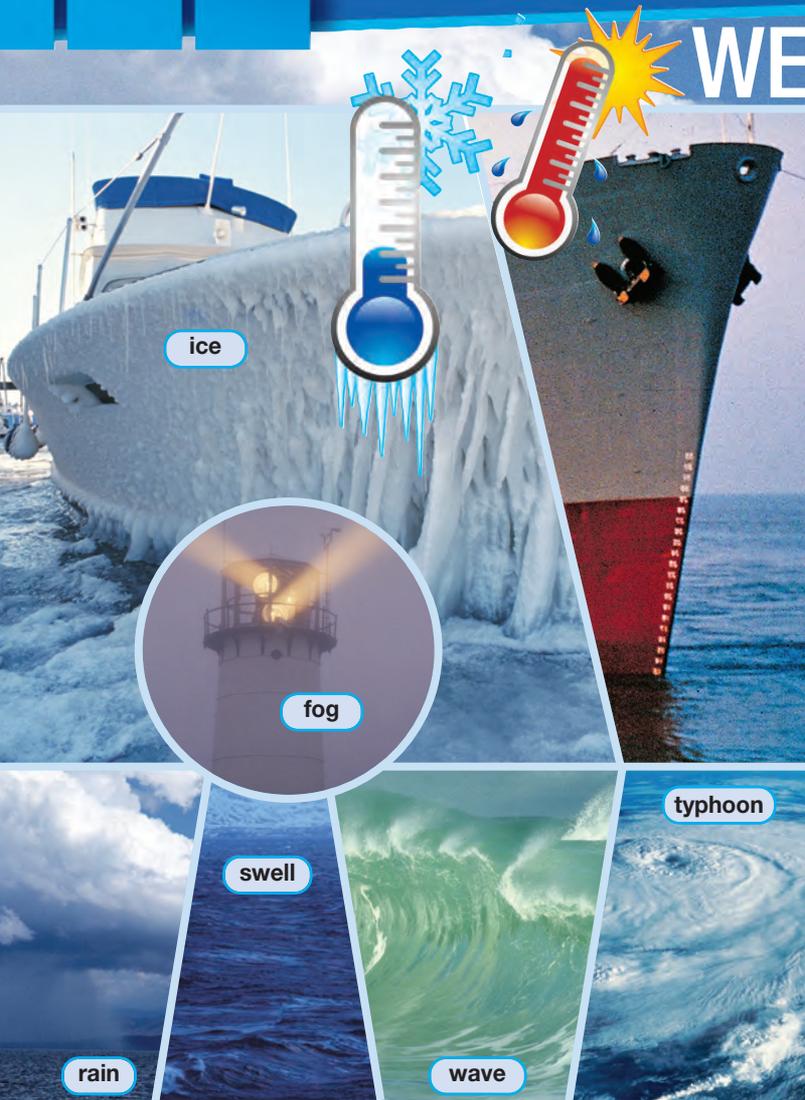
Cruise ship diagram

### Parts of a ship: Exterior



- 1 \_\_\_\_\_  
 2 \_\_\_\_\_  
 3 \_\_\_\_\_  
 4 \_\_\_\_\_

## WEATHER REPORTS



ice

fog

typhoon

swell

rain

wave

### Portland Waters

#### Severe weather warning

**This afternoon:** Thick **fog** and heavy **hail** are interrupting shipping in the Portland area. Ships are delayed outside of the port until weather conditions improve.

**Tonight:** The fog is expected to clear, but low temperatures may result in **ice** on docks.

### Thames Water

**This afternoon:** As a result of low temperatures, **icing** will form on most decks. Exercise caution.

**Tonight:** Temperatures will continue to fall. **Snow** is expected. 70% chance of **precipitation**.

### Japanese Coastal Waters

#### Typhoon warning remains in effect

**This afternoon:** The waters are rough with large **waves** and severe **rain**.

**Tonight:** By 6:00 pm the typhoon will have passed and ships may enter port.

### Mid Atlantic Waters

#### Hurricane warning

The approaching hurricane will cause extreme **swells**. Sea conditions throughout the area will be severe. Mid Atlantic ports will be closed until the hurricane passes tomorrow.

HOME

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WEATHER REPORTS

CONTACT

### Get ready!

1 Before you read the passage, talk about these questions.

- 1 What are some types of weather conditions that seamen face?
- 2 How can storms affect shipping operations?

### Reading

2 Read the weather reports on a website. Mark the following statements as true (T) or false (F).

- 1 \_\_\_ Fog is expected in the Portland waters throughout the evening.
- 2 \_\_\_ The Thames waters will most likely receive some form of precipitation.
- 3 \_\_\_ A hurricane warning for Japanese coastal waters will probably end by 6:00 pm.

### Vocabulary

3 Match the words (1-8) with the definitions (A-H).

- |             |               |
|-------------|---------------|
| 1 ___ icing | 5 ___ snow    |
| 2 ___ fog   | 6 ___ weather |
| 3 ___ swell | 7 ___ wave    |
| 4 ___ rain  | 8 ___ ice     |

- A a liquid form of precipitation that falls in drops
- B a rolling movement of the sea
- C a frozen form of precipitation that falls in flakes
- D a low-level cloud that limits visibility
- E the build-up of frozen water on a ship
- F the solid form of water
- G the conditions and activity of the atmosphere
- H a swell in the ocean that breaks near a shore

- 4 Fill in the blanks with the correct words from the word bank.

**Word BANK**

precipitation hurricane typhoon hail

- A \_\_\_\_\_ is only found in the Pacific Ocean.
- A \_\_\_\_\_ is only found in the Atlantic Ocean.
- Rain, fog, and snow are types of \_\_\_\_\_.
- Pellets of ice falling from the sky is called \_\_\_\_\_.

- 5 Listen and read the weather reports on a website again. What type of weather conditions are expected in Thames Waters?

**Listening**

- 6 Listen to a conversation between a ship owner and a captain. Choose the correct answers.

- What is the conversation mainly about?
  - A a possible typhoon
  - B a delay caused by weather
  - C damage to a shipment
  - D ship damage from a hurricane
- What will the man most likely do next?
  - A meet with his officers
  - B change the ship's course
  - C depart as soon as possible
  - D obtain another weather report



- 7 Listen again and complete the conversation.

**Captain:** There's a 1 \_\_\_\_\_ forming in the Atlantic. It's not too close to our destination. But there'll be dangerous winds and swells.

**Ship Owner:** I see. 2 \_\_\_\_\_ departure, then. 3 \_\_\_\_\_ than sorry.

**Captain:** You took the words right 4 \_\_\_\_\_.

**Ship Owner:** When do you think you'll be able to leave?

**Captain:** It looks like conditions will be better 5 \_\_\_\_\_ . After that we'll just have to deal with regular waves and rain.

**Ship Owner:** Sounds good. When do you think you'll return with the shipment?

**Captain:** I expect to be back 6 \_\_\_\_\_ next Friday.

**Ship Owner:** Sounds like a plan.

**Captain:** Good. I'll go inform my officers.

**Speaking**

- 8 With a partner, act out the roles below based on Task 7. Then, switch roles.

**USE LANGUAGE SUCH AS:**

*There's a ... forming in the ...  
It looks like conditions will ...  
When do you think ...?*

**Student A:** You are a captain. Talk to Student B about:

- weather conditions
- ship safety
- estimated shipping times

**Student B:** You are a ship owner. Talk to Student A about the weather.

**Writing**

- 9 Use the weather reports on a website and the conversation in Task 8 to fill out the following crew memo about a change in departure due to weather conditions.

SS Jackson May

**Crew MEMO Feedback Form**

Subject: Change in Departure

New Departure date/time: \_\_\_\_\_

Cause/Weather Conditions: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

# Glossary

- product tanker** [N-COUNT-U1] A **product tanker** is a carrying vessel that is smaller than a crude tanker and transports various refined petroleum products.
- pulse** [N-COUNT-U14] A **pulse** is the steady expansion and contraction felt in an artery, produced by heart contractions.
- purchase** [N-COUNT-U7] A **purchase** is a tackle with an even number of sheaves.
- rain** [N-UNCOUNT-U13] **Rain** is water that falls from the sky during a storm.
- relieve** [V-T-U15] To **relieve** a person is to take his or her position.
- rescue breathing** [N-UNCOUNT-U14] **Rescue breathing** is the act of breathing for an unconscious person, using mouth-to-mouth resuscitation.
- rig** [N-COUNT-U8] A ship's **rig** is the arrangement of ropes, cables, and chains that support its masts.
- RO/RO** [N-COUNT-U8] A **RO/RO**, or roll-on/roll-off vessel, is a ship with built-in ramps so that cargo can be rolled on and off the ship during loading or discharge.
- roller chock** [N-COUNT-U10] A **roller chock** is a fitting with moving rollers through which mooring lines are fed.
- runner** [N-COUNT-U7] A **runner** is the reverse of a single-whip; it has a movable block, one sheave with a weight attached, and a rope running under the sheave.
- safe working load (SWL)** [N-COUNT-U6] A **safe working load (SWL)** is the maximum amount of weight a line should support.
- safety factor (SF)** [N-COUNT-U6] A **safety factor (SF)** is the ratio of a line's breaking strain to its safe working load.
- secure** [V-T-U6] To **secure** something is to hold something tightly in a particular place or position so that it does not move.
- seizing** [N-COUNT-U4] A **seizing** is a binding used to hold a rope.
- sheave** [N-COUNT-U7] A **sheave** is a wheel mounted in a block that is used to guide a rope.
- shell** [N-COUNT-U7] A **shell** is the outer casing of a block.
- shift** [V-I-U9] If something **shifts**, it moves into a different place or position.
- ship/shore checklist** [N-COUNT-U2] A **ship/shore checklist** is a list of inspections that must take place before cargo transfer can begin.
- shock** [N-UNCOUNT-U14] **Shock** is a critical condition where blood flow is insufficient.
- shod** [ADJ-U11] If an anchor is **shod**, it is dirty or covered in debris from the sea floor.
- short stay** [N-UNCOUNT-U11] **Short stay** is the status of an anchor chain just before the anchor is dislodged from the ground.
- single-whip** [N-COUNT-U7] A **single-whip** is a standing block with one sheave and a rope running over it; it is used for light loads.
- sling** [N-COUNT-U8] A **sling** is a lifting device that uses a chain or rope, suspended from a crane, with an attachment at the end.
- snow** [N-UNCOUNT-U13] **Snow** is white, frozen water that falls from the sky in flakes.
- spar** [N-COUNT-U6] A **spar** is a pole on a vessel to which lines are secured.
- spill** [N-COUNT-U2] A **spill** is an overflow.
- splice** [V-T-U4] To **splice** a rope is to join the ends of two pieces together.
- splint** [N-COUNT-U14] A **splint** is a device used to keep a body part immobile.
- spool** [V-T-U4] To **spool** a rope is to wrap it around an object.
- stowage** [N-UNCOUNT-U9] **Stowage** is space on a vessel used for storing cargo.
- strand** [N-COUNT-U4] A **strand** is a group of fibers wound together to make a rope.



## Merchant Navy

**Career Paths: Merchant Navy** is a new educational resource for merchant seamen who want to improve their English communication in a work environment. Incorporating career-specific vocabulary and contexts, each unit offers step-by-step instruction that immerses students in the four key language components: reading, listening, speaking, and writing. **Career Paths: Merchant Navy** addresses topics including the parts of a ship, types of merchant ships, marlinespike seamanship, nautical directions, and navigation methods.

The series is organized into three levels of difficulty and offers a minimum of 400 vocabulary terms and phrases. Every unit includes a test of reading comprehension, vocabulary, and listening skills, and leads students through written and oral production.

**Included Features:**

- A variety of realistic reading passages
- Career-specific dialogues
- 45 reading and listening comprehension checks
- Over 400 vocabulary terms and phrases
- Guided speaking and writing exercises
- Complete glossary of terms and phrases

The **Teacher's Book** contains a full answer key and audio scripts.

The **Teacher's Guide** contains detailed lesson plans, a full answer key and audio scripts.

The **audio CDs** contain all recorded material.



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