

**K to 12 BASIC EDUCATION CURRICULUM  
SENIOR HIGH SCHOOL PRE- BACCALAUREATE MARITIME SPECIALIZATION  
INTRODUCTION TO MARITIME CAREER**

**Grade:**11

**Subject Title:** Introduction to Maritime Career

**Semester:**1<sup>st</sup> Semester

**No. of Hours:** 80 hours

**Prerequisite:** none

**Subject Description:** This maritime course focuses on competencies that a Senior High School (SHS) student ought to possess toward a career in the maritime industry. The course is designed to enhance the knowledge, skills, positive attitude, and work values in accordance with workplace standards. The competencies are: 1) an appreciation of a career in shipping, 2) an understanding of international maritime standards and national maritime legislations, 3) identification of the different types of ships, 4) the ability to explain the ship's classification, dimensions, and terminologies for general direction, 5) the ability to explain the ship's organization and watchkeeping duties and responsibilities, and 6) the ability to explain the ship's trading services and charter party agreement.

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCIES	CODE
<b>Lesson 1: Appreciate Shipping Career as a Maritime Profession (ASCM) (4 hrs)</b>				
<p><b>A. Introduction to Shipping</b></p> <p>1. Baltic and International Maritime Council (BIMCO) / International Chamber of Shipping (ICS) Manpower Report 2015</p> <p>2. Philippines as the leading supplier of seafarers</p> <p>3. Benefits in maritime profession</p>	<p>The learners demonstrate an understanding of the concepts and underlying principles in the shipping career as a maritime profession</p>	<p>The learner shall be able to understand the shipping career as a maritime profession</p>	<p><b>LO 1. Discuss prospects in a shipping career</b></p> <p>1.1 Discuss other job opportunities in the merchant marine profession</p> <p>a. Ship building and repair</p> <p>b. Ship operations and management</p> <p>c. Port operations and management</p> <p>d. Ship surveying and inspection</p> <p>e. Offshore industry</p> <p>f. Maritime education and training</p> <p>g. Philippine Navy</p> <p>h. Philippine Coast Guard</p>	<p><b>PMMC11ASCM-Ia-1</b></p>

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			<ul style="list-style-type: none"> <li>i. Maritime Industry Authority</li> <li>1.2 Discuss the BIMCO / ICS Manpower Report 2015               <ul style="list-style-type: none"> <li>a. Baltic and International Maritime Council (BIMCO)</li> <li>b. Philippines as the leading supplier of seafarers</li> </ul> </li> <li>1.3 Explain the benefits in a shipping career               <ul style="list-style-type: none"> <li>a. High wages</li> <li>b. Tax exemption</li> <li>c. Expense free (travel, accommodation, and food)</li> <li>d. Meet people of different cultures</li> <li>e. Learn different languages</li> </ul> </li> </ul>	
<b>Lesson 2: Explain International Maritime Standards and National Maritime Legislations (EIMS) (8 hrs)</b>				
<b>A. International Maritime Organization (IMO)/other related conventions</b> <ul style="list-style-type: none"> <li>1. Safety of Life at Sea (SOLAS) 1974</li> <li>2. Standard of Training, Certification and Watchkeeping (STCW) 1978 as</li> </ul>	The learners demonstrate an understanding of the concepts and underlying principles in the International Maritime Standards and National	The learners shall be able to demonstrate an understanding of the International Maritime Standards and National Maritime Legislations	<b>LO 1. Discuss the International Maritime Standards</b> <ul style="list-style-type: none"> <li>1.1 Discuss the overview of maritime-related conventions and their functions</li> </ul>	<b>PMMC11EIMS-Ib-c-1</b>

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<p>amended</p> <p>3. Maritime Pollution (MARPOL 73/78)</p> <p>4. Maritime Labour Convention (MLC) 2006</p> <p>5. International Rules for Preventing Collision at Sea (COLREG)</p> <p>6. Loadline Convention (LL)</p> <p>7. United Nations Convention on the Law of the Sea (UNCLOS)</p> <p><b>B. National maritime legislations</b></p> <p>1. Commission on Higher Education (CHED) Memorandum Order 20 Series of 2015</p> <p>2. Republic Act (RA) 10635</p>	Maritime Legislations		<p>a. Safety of Life at Sea (SOLAS) 1974</p> <p>b. Standard of Training, Certification, and Watchkeeping (STCW) 1978 as amended</p> <p>c. Maritime Pollution (MARPOL 73/78)</p> <p>d. Maritime Labor Convention (MLC) 2006</p> <p>e. International Rules for Preventing Collision at Sea (COLREG)</p> <p>f. Loadline Convention (LL)</p> <p>g. United Nations Convention on the Law of the Sea (UNCLOS)</p> <p>1.2 Discuss national maritime legislations</p> <p>a. CHED Memorandum Order 20 Series of 2015</p> <p>b. Republic Act 10635</p> <p>c. Presidential Decree 474</p>	
<b>Lesson 3: Distinguish the Different Types of Ships (DDTS) (20 hrs)</b>				
<b>A. Different types of ships</b>	The learners demonstrate an	The learners shall be able to independently	<b>LO 1. Identify the different types of</b>	<b>PMMC11DDTS-Id-h-1</b>

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CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCIES	CODE
<ol style="list-style-type: none"> <li>1. General cargo ship</li> <li>2. Bulk carrier</li> <li>3. Car carrier</li> <li>4. Container carrier</li> <li>5. Reefer ship</li> <li>6. Log ship</li> <li>7. Woodchip carrier</li> <li>8. Livestock carrier</li> <li>9. Passenger ship</li> <li>10. Specialized carrier</li> <li>11. Crude oil</li> <li>12. Chemical</li> <li>13. Gas</li> </ol> <p><b>B. Different cargoes carried on board a ship;</b></p> <ol style="list-style-type: none"> <li>1. Break bulk</li> <li>2. Oil/chemical/gas</li> <li>3. Cargo in bulk</li> </ol>	<p>understanding of the concepts and underlying principles in the different types of ships</p>	<p>demonstrate an understanding of the different types of ships</p>	<p><b>ships</b></p> <p>1.1 Describe the different types of ships</p> <p>1.2 Differentiate the category of ships according to the type of cargo carried</p>	

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4. Pure Car Carrier (PCC)/Pure Car and Truck Carrier (PCTC)  5. Container cargo  6. Reefer cargo  7. Logs  8. Woodchip  9. Cattle  10. Passenger  11. Equipment use such as pipes, cable, optics, and others				
<b>Lesson 4: Explain the Ship's Nomenclature, Dimensions, and Terminologies for General Direction(ESDT) (24 hrs)</b>				
<b>A. Ship's nomenclature</b> 1. Hull 2. Keel 3. Bow 4. Stern 5. Deck (e.g., compass deck, main deck, boat deck, and others) 6. Bulkheads 7. Accommodation 8. Bridge 9. Cofferdams 10. Cargo hold/tank 11. Engine room spaces 12. Steering gear room 13. Rudder	The learners demonstrate an understanding of the concepts and underlying principles in the ship's nomenclature, dimensions, and terminologies for general direction	The learners shall be able to independently demonstrate an understanding of the ship's nomenclature, dimensions and terminologies for general direction	<b>LO 1. Describe the different parts of the ship</b>  1.1 Discuss the ship's nomenclature: a. Hull b. Keel c. Bow d. Stern e. Deck (e.g., compass deck, main deck, boat deck, and others) f. Bulkheads g. Accommodation h. Bridge i. Cofferdams j. Cargo hold/tank	<b>PMMC11ESDTIi-IId-1</b>

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CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCIES	CODE
<p>14. Propeller</p> <p><b>B. Ship's Dimensions</b></p> <ol style="list-style-type: none"> <li>1. Length Overall (LOA)</li> <li>2. Forward Perpendicular</li> <li>3. Aft Perpendicular</li> <li>4. Length Between Perpendicular (LBP)</li> <li>5. Amidships</li> <li>6. Extreme breadth</li> <li>7. Summer loadline</li> <li>8. Freeboard</li> <li>9. Draft</li> <li>10. Depth</li> </ol> <p><b>C. Ship's terminologies for general direction</b></p> <ol style="list-style-type: none"> <li>1. Forward</li> <li>2. Amidships</li> <li>3. Aft</li> <li>4. Port</li> <li>5. Starboard</li> <li>6. Abeam</li> <li>7. Port quarter</li> <li>8. Starboard quarter</li> </ol>			<ol style="list-style-type: none"> <li>k. Engine room spaces</li> <li>l. Steering gear room</li> <li>m. Rudder</li> <li>n. Propeller</li> </ol> <p>1.2 Discuss the ship's dimensions:</p> <ol style="list-style-type: none"> <li>a. Length overall (LOA)</li> <li>b. Forward perpendicular</li> <li>c. Aft perpendicular</li> <li>d. Length between perpendicular (LBP)</li> <li>e. Amidships</li> <li>f. Extreme breadth</li> <li>g. Summer loadline</li> <li>h. Freeboard</li> <li>i. Draft</li> <li>j. Depth</li> </ol> <p>1.3 Define the following terminologies:</p> <ol style="list-style-type: none"> <li>a. Forward</li> <li>b. Midship</li> <li>c. Aft</li> <li>d. Port</li> <li>e. Starboard</li> <li>f. Abeam</li> <li>g. Port quarter</li> <li>h. Starboard quarter</li> </ol>	
<b>Lesson 5: Analyze the ship's Organization and Watchkeeping Duties and Responsibilities (ASOW) (20 hrs)</b>				
<p><b>A. Ship's organization and watchkeeping duties and responsibilities</b></p> <ol style="list-style-type: none"> <li>1. Deck department               <ol style="list-style-type: none"> <li>a. Master</li> <li>b. Chief officer</li> </ol> </li> </ol>	The learners demonstrate an understanding of the concepts and underlying principles in the ship's	The learners shall be able to independently demonstrate an understanding of the ship's organization and watch-	<p><b>LO 1. Discuss the staffing pattern of ship's organization based on job positions</b></p> <p>1.1 Explain the ship's organization by department</p>	<b>PMMC11ASOW-IIe-i-1</b>

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<b>CONTENT</b>	<b>CONTENT STANDARDS</b>	<b>PERFORMANCE STANDARDS</b>	<b>LEARNING COMPETENCIES</b>	<b>CODE</b>
c. Second officer d. Third officer e. Deck cadet/ Apprentice f. Boatswain/Pumpman g. Able bodied seaman/AB deck h. Ordinary seaman 2. Engine department a. Chief engineer b. Second engineer c. Third engineer d. Fourth engineer e. Engine cadet/ Apprentice f. Machinist/Fitter g. Oiler/AB engine h. Wiper 3. Steward department a. Chief cook b. Second cook c. Messman	organization and watch-keeping duties and responsibilities	keeping duties and responsibilities	a. Deck department b. Engine department c. Steward department 1.2 Discuss the individual crew and watchkeeping duties and responsibilities 1.3 Discuss the desirable and undesirable practices in rendering duties and responsibilities 1.4 Discuss the job position in terms of salary, incentives, and scope of work	
<b>Lesson 6: Explain the Ship's Trading Services and Charter Party Agreement (ESTS) (4 hrs)</b>				
<b>A. Ship's trading services</b> 1. Charter party agreement 2. Liner 3. Tramping	The learner demonstrates an understanding of the concepts and underlying principles in the ship's trading services and charter party agreement	The learners shall be able to independently demonstrate an understanding of the ship's trading services and charter party agreement	<b>LO 1. Discuss the charter party agreement</b> 1.1 Purpose 1.2 Limitation  <b>LO 2. Identify the two trading services of a ship</b> 1.1 Differentiate the liner from tramping services	<b>PMMC11ESTS-IIj-1</b>    <b>PMMC11ESTS-IIj-2</b>

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**Glossary**

<b>Admiral</b>	Comes from the Arabic "Emir" or "Amir," which means "First commander," and "Al-bahr," which means "the sea". Emir-al-barh eventually evolved into Admiral
<b>Ballast tanks</b>	Double bottoms for carrying water ballast and capable of a boat or ship to give her stability
<b>Inflammable liquids</b>	Liquids liable to spontaneous combustion, which gives off inflammable vapors at or below 80 degrees F. For example, ether, ethyl, benzene, gasoline, paints, enamels, carbon disulfide, etc.
<b>Keel</b>	The lowest longitudinal timber of a vessel on which framework of the whole is built up; a combination of iron plates serving same purpose in iron vessel
<b>Knot</b>	<ol style="list-style-type: none"><li>1) Speed of 1 nautical mile per hour (1.7 land miles per hour)</li><li>2) A twisting, turning, tying, knitting, or entangling of ropes or parts of a rope so as to join two ropes together or make a finished end on a rope, for a certain purpose</li></ol>
<b>Logbook</b>	A book containing the official record of a ship's activities together with remarks concerning the state of the weather, etc.
<b>Longitudinal</b>	A fore and aft strength member of a ship's structure relating to longitude or length



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<b>Longshoreman</b>	A laborer who works at loading and discharging cargo
<b>Main deck</b>	The main continuous deck of a ship running from fore to aft; the principal deck; the deck from which the freeboard is determined
<b>Tanker</b>	A ship designed to carry various types of liquid cargo, from oil and gasoline to molasses, water, and vegetable oil
<b>Territorial waters</b>	That portion of the sea up to a limited instance which is immediately adjacent to the shores of any country and over which the sovereignty and exclusive jurisdiction of that country extend. For example, South Africa's territorial waters extend for 200 n. miles offshore.
<b>Tripping line</b>	A line used for capsizing the sea anchor and hauling it in

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**Code Book Legend**

**Sample: PMMC11ASCM-Ia-1**

LEGEND		SAMPLE	
<b>First Entry</b>	Learning Area and Strand/ Subject or Specialization	Introduction to Maritime Career	<b>PMMC 11</b>
	Grade Level	Grade 11	
<b>Uppercase Letter/s</b>	Domain/Content/ Component/ Topic	Appreciate Shipping Career as a Maritime Profession	<b>ASCM</b>
			-
<b>Roman Numeral</b> <i>*Zero if no specific quarter</i>	Quarter	First Quarter	<b>I</b>
<b>Lowercase Letter/s</b> <i>*Put an en dash (–) in between letters to indicate more than a specific week</i>	Week	Week One	<b>a</b>
			-
<b>Arabic Number</b>	Competency	Discuss prospects in a shipping career	<b>1</b>

DOMAIN/ COMPONENT	CODE
Appreciate a Career in Shipping	ASCM
Explain International Maritime Standards and National Maritime Legislations	EIMS
Distinguish the Different Types of Ships	DDTS
Explain the Ship's Nomenclature, Dimensions, and Terminologies for General Direction	ESND
Analyze the ship's Organization and Watchkeeping Duties and Responsibilities	ASOW
Explain the Ship's Trading Services and Charter Party Agreement	ESTS

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**References**

**Main Reference:**

International Maritime Organization. *International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW) and STCW Code including the 2010 Manila Amendments*. London: International Maritime Organization, 2011.

**Other References:**

United States War Shipping Administration. *United States Maritime Service Training Manual*. Cornell Maritime Press for U.S. Maritime Service, 1994.

"*Maritime Terms and Definitions (circa 1944)*"; American Merchant Marine at War, Retrieved from <http://www.usmm.org/terms.html>.