

COMPETENCY MAPPING

STCW Table: Table A – II / 5
Title: *Specification of Minimum Standards of Competence of Ratings as Able Seafarer Deck*

Guidance Notes (Scoring)

Terms	Description
Reward	Earned points, an integer within the range of 0 to 100. The default value is 0.
Penalty	Penalty points, an integer within the range of 100 to 0. The default value is 100.
Single	A rule is triggered in the scenario only once: the first time the conditions occur.
Circular	A rule is triggered every time the conditions occur.
Time	Time dependency ruling
Weight	Multiplier of a trainee's level of competency

Levels of Simulation

Familiarization	Familiar with the equipment, layout procedures, and routine task.
Operational	The task relates to the inputs and outputs and their relationship and has to do with the performance of a function.
Functional	The task relates to the functions or activities performed by the system without reference to which of the elements of the system perform those functions.
Management	Relates to the management of the combination of systems to perform a given job.
Communication	Relates to effective communication between human resources to report, get feedback, or to execute a task.
Emergency	Task performed in circumstances where there is variation or deviation from an expected scenario or situation.
Crisis	Task performed when the emergency has developed into a crisis.



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FUNCTION 1 – NAVIGATION AT THE SUPPORT LEVEL

<p>C1 Contribute to a safe navigational watch</p>	<p>C1.1 Ability to understand orders and to communicate with the officer of the watch on matters relevant to watch keeping duties</p> <p>C1.2 Procedures for the relief, maintenance and handover of a watch</p> <p>C1.3 Information required to maintain a safe watch</p>	<p>Contribute to a safe navigational watch shall be addressed by presenting valid COP in RFPNW II/4</p>					
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C2 Contribute to berthing, anchoring and other mooring operations	<p>C2.1 Working knowledge of the mooring system and related procedures, including:</p> <p>C2.1.1 The function of mooring and tug lines and how each line functions as part of an overall system</p> <p>C2.1.2 The capacities, safe working loads and breaking strengths of mooring equipment, including mooring wires, synthetic and fiber lines, winches,</p>	<p>At the end of the assessment the candidate must be able to:</p> <p>establish the function of mooring and tug lines as part of an overall system;</p> <p>observe the capacity, safe working load and breaking strengths of mooring equipment;</p> <p>apply procedures and order of events for making fast and letting go mooring and tug lines and wires, including towing lines;</p> <p>execute the procedures and</p>	<p>Criterion 1 Operations are carried out in accordance with established safety practices and equipment operating instructions</p>	<p>Carry out operations in accordance with established safety and equipment operating instructions on the following:</p> <p>Berthing operation:</p> <p>1. prepare for berthing alongside by the use of mooring lines with its corresponding function as part of overall system</p> <ul style="list-style-type: none"> • Heaving line • Stopper • Messenger line • Mooring rope • Rat guards <p>2. the procedures and orders of events for making fast and letting go tug lines and wires including the figure of eight method and stopper</p> <p>3. Prepare mooring station for berthing taking into account the safe working loads of deck fittings</p> <ul style="list-style-type: none"> • Switch mooring winch ON and engage gear 	Checklist	Management Communication	N/A



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	<p>anchor windlasses, capstans, bits, chocks and bollards</p> <p>C2.1.3 The procedures and order of events for making fast and letting go mooring and tug lines and wires, including towing lines</p> <p>C2.1.4 The procedures and order of events for the use of anchors in various operations</p> <p>C2.2 Working knowledge of the procedures</p>	<p>order of events for the use of anchors in various operations;</p> <p>apply the procedures and order of events associated with mooring to a buoy or buoys.</p>		<ul style="list-style-type: none"> Operate anchor windlass to prepare anchor Mooring lines were placed on which side the berthing will take place Prepare heaving line Prepare messenger line <p>4. Make fast the ship using the proper procedures and order of events to the berth</p> <ul style="list-style-type: none"> Handle then throw the heaving line until it reaches the berth Engage the mooring winch Send spring line and make fast Send breast line and make fast Send head line and make fast Ensure proper use of chocks, bits and bollard in securing mooring lines as per mooring plan Secure mooring line with rat guard Disengage mooring winch and switch OFF power <p>Mooring safely to a buoy;</p> <ul style="list-style-type: none"> Start the mooring winch; check if working properly Prepare heaving line, Messenger line and stoppers 			



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	and order of events associated with mooring to a buoy or buoys.			<ul style="list-style-type: none"> • Made fast safely the tugboat at center lead aft • Use messenger line to pick up mooring rope connected to the buoy • Heave up and secure using figure of eight turns to the bitt • Report to the bridge that already fast to the buoy and everything is secured 			



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FUNCTION 2 – CARGO HANDLING AND STOWAGE AT THE SUPPORT LEVEL

<p>C3 Contribute to the handling of cargo and stores</p>	<p>C3.1 Knowledge of procedures for safe handling, stowage and securing of cargoes and stores, including dangerous and hazardous and harmful substances and liquids</p> <p>C3.2 Basic knowledge of and precautions to observe in connection with particular types of cargo and identification of IMDG labelling</p>	<p>At the end of the assessment the candidate must be able to:</p> <p>1.Administer the procedures in securing cargoes and stores with established safety procedures and equipment operating instructions</p> <p>2.Identify particular types of cargo as per IMDG labelling and to observe precautions including safe handling of dangerous, hazardous and harmful</p>	<p>Criterion 1 Cargo and stores operations are carried out in accordance with established safety procedures and equipment operating instructions</p>	<p>1.secure cargoes and stores with established safety procedures and equipment operating instructions;</p> <p>Identify the materials necessary for securing cargo containers;</p> <ol style="list-style-type: none"> 1. lashing bar 2. turn buckle and shackles 3. Tightening bar 4. Pad eyes 5. Perform safely the Lashing and Unlashing of Cargo container <p>2.Identify equipment use for securing paints and stores;</p> <ol style="list-style-type: none"> 1. Wire Ropes 2. Pelican hooks w/ turn buckle 3. Ratchet w/ strap 4. Steel bars 5. place stores and paints unto the locker and properly secured to with stand Ships movements with equipment stated above 	<p>Checklist</p>	<p>Management</p>	<p>N/A</p>
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		substances and liquid		<p>3.State the procedure on handling dangerous, hazardous and harmful stores or cargoes in the event of leaks and spills;</p> <p>1. contain and clean up, effectively appropriate to disposal of waste material and notification to all relevant authorities. Emergency Procedures should consider the immediate danger to persons and ensure his/her safety.</p> <p>2. Take precautions to protect yourself if necessary and do not touch any harmful substance.</p> <p>3. Raise the alarm – evacuate persons not involved in contamination from the area. Isolate contaminated individuals and treat as per MSDS. Isolate affected persons and keep on site. If required</p> <p>4. Secure the area to keep non-emergency response personnel away from danger.</p>			







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				<p>5. Assist the emergency response personnel and supply the Material Safety Data Sheet/s if the chemical/s are known.</p> <p>4. Identify proper IMDG labeling for handling particular types of cargo or store</p>   			



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			<p>Criterion 2 The handling of dangerous, hazardous and harmful cargoes or stores complies with established safety practices</p>				



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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF TRANSPORTATION



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FUNCTION 3 – CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE SUPPORT LEVEL

<p>C4 Contribute to the safe operation of deck equipment and machinery</p>	<p>C4.1 Knowledge of deck equipment, including</p> <p>C4.1.1 Function and uses of valve and pumps, hoists, cranes, booms and related equipment</p> <p>C4.1.2 Function and uses of winches, windlasses, capstans and related equipment</p> <p>C4.1.3 Hatches, watertight doors, ports and related equipment</p>	<p>At the end of the assessment the candidate must be able to:</p> <p>1. Carry out operations in accordance with established safety practices and equipment operating instructions.</p> <p>2. Communicate consistently and successfully within the operator's area of responsibility</p> <p>3. Carry out safely equipment operation in accordance with established procedure</p>	<p>Criterion 1 Operations are carried out in accordance with established safety practices and equipment operating instructions</p> <p>Criterion 2 Communications within the operator's area of responsibility are consistently successful</p> <p>Criterion 3 Equipment operation is safety carried out in accordance with established procedures</p> <p>Criterion 4</p>	<p>Identify and explain the different valve and their function based on its color coding;</p> <p>1 Valve color for sea water 2 Valve color for fresh water 3 Valve color for fire main line 4 Valve color for lube oil 5 Valve color for fuel 6 Valve color for waste/ sludge 7 Valve color for air/compressed air 8 Valve color for portable water 9 Valve color for oxygen 10 Valve color for sewage</p> <p>11. Show and explain pipeline system, bilges, wells and ballast suction;</p> <p>12. Hoist dipping flags and the main single-flag signals (A, B, G, H, O, P, Q)</p> <p>Utilize and handle safely deck and cargo gear equipment and communicate with hand signal</p> <p>Operate Crane safely;</p>	<p>Checklist</p>	<p>Management Communication</p>	<p>N/A</p>
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	<p>C4.1.4 Fiber and wire ropes, cables and chains, including their construction, use, markings, maintenance and proper stowage</p> <p>C4.1.5 Ability to use and understand basic signals for the operation of equipment, including winches, windlasses, cranes and hoists</p> <p>C4.1.6 Ability to operate anchoring equipment under various conditions, such as anchoring, weighing</p>	<p>4. Rig and unrig properly bosun's chair, staging, pilot ladder, hoist, rat guards and gangways in accordance with safe industry practice</p> <p>5. Create and use knots, splices, stoppers, whippings and proper canvas handling</p> <p>6. Use properly blocks and tackle</p> <p>7. Handle properly lines, wires, cables and chains</p>	<p>Demonstrate the proper methods for rigging and unrigging of bosun's chair in accordance with safe industry practice</p> <p>Criterion 5 Demonstrate the proper creation and use of knots, splices, stoppers, whippings, servings as well as proper canvas handling</p> <p>Criterion 6 Demonstrate the proper use of blocks and tackle</p> <p>Criterion 7 Demonstrate the proper methods for handling lines,</p>	<ol style="list-style-type: none"> 1. Slack cargo runner 2. Heave up the cargo runner 3. Swing to the left 4. Swing to the right 5. Stop 6. Boom up <p>Rigging of pilot ladder and Gangway;</p> <ol style="list-style-type: none"> 1. Rig pilot ladder safely by 2 crew 2. Secure it properly and put manrope 3. Prepare lifebuoy with rope, ready near the pilot ladder 4. Make the heaving line ready for the pilot's belonging. 5. Prepare the gangway, secure the stanchion post with ropes by 2 crew 6. Make fast on a ship's strong structure or pad eye 7. Rig the safety net properly <p>Handle the lines, wires, cables, Block and tackle and chains safely and properly;</p> <ol style="list-style-type: none"> 1. Measure the diameter of the wire 2. Coil the wire, cable properly 			



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	<p>anchor, securing for sea, and in emergencies</p> <p>C4.2 Knowledge of the following procedures and ability to:</p> <p>C4.2.1 Rig and unrig bosun's chairs and staging</p> <p>C4.2.2 Rig and unrig pilot ladders, hoists, rat-guards and gangways</p> <p>C4.2.3 Use marlin spike seamanship skills, including the proper uses of knots, splices and stoppers</p>		wires, cables and chains	<ol style="list-style-type: none"> 3. Perform proper splicing of wire 4. Splice a fiber rope correctly 5. Secure and store the chain properly. 6. Use correctly block and tackle for lifting object 7. Close and open watertight doors and hatch cover <p>Anchoring operation,</p> <p>Preparation for anchoring And dropping the anchor;</p> <ol style="list-style-type: none"> 1.Start and check the windlass if working properly 2.Take out the lashing, stoppers and haws pipe cover of port and starboard anchor 3.Lower starboard anchor 1 meter above the water 4.Put the break on and disengage. 5.Let go starboard anchor 2 shackles in the water; Hoist the anchor ball 6.Report when the anchor is holding 7.Monitor if the anchor is not dragging 8.Secure starboard anchor, put the stopper on <p>Heaving up anchor;</p>			



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	<p>C4.3 Use and handling of deck and cargo-handling gear and equipment:</p> <p>C4.3.1 Access arrangements, hatches and hatch covers, ramps, side/bows/stern doors or elevators</p> <p>C4.3.2 Pipeline systems – bilge and ballast suctions and wells</p> <p>C4.3.3 Cranes, derricks, winches</p> <p>C4.4 Knowledge of hoisting and</p>			<ol style="list-style-type: none"> 1.Start the windlass; check if working properly 2.Engage starboard anchor 3.Take off the stopper 4.Report chain leading and condition 5.Open the break and wait for order 6.Heave up the anchor as ordered 7.Report when anchors aweigh and when anchor's home 8.Bring down anchor ball and put lashing, stopper, covers 9.Switch off windlass motor 10.Report that anchors are secured 			



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	dipping flags and the main single-flag signals (A, B, G, H, O, P, Q)						
C5 Apply occupational health and safety precautions	C5.1 Working knowledge of safe working practices and personal shipboard safety including: C5.1.1 Working aloft	At the end of the assessment the candidate must be able to: Observe procedures designed to safeguard personnel and the ship at all times	Criterion 1 Procedures designed to safeguard personnel and the ship are observed at all times Criterion 2	Observe procedures designed to safeguard personnel and the ship; Select checklist, permit during; 1. Working aloft 2. Working over the side 3. Entering and working in enclosed space 4. Hot work	Checklist	Management	N/A



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	<p>C5.1.2 Working over the side</p> <p>C5.1.3 Working in enclosed spaces</p> <p>C5.1.4 Permit to work systems</p> <p>C5.1.5 Line handling</p> <p>C5.1.6 Lifting techniques and methods of preventing back injury</p> <p>C5.1.7 Electrical safety</p> <p>C5.1.8 Mechanical safety</p> <p>C5.1.9</p>	<p>Utilize correctly the appropriate safety and protective equipment at all times and observe safe working practices</p>	<p>Safe working practices are observed and appropriate safety and protective equipment is correctly used at all times</p>	<p>Prepare the equipment designed to safeguard personnel and the ship when;</p> <ol style="list-style-type: none"> 5. Working aloft 6. Working over the side 7. Entering and working in enclosed space 8. Doing Hot work <p>Donning the appropriate safety and protective equipment properly:</p> <ol style="list-style-type: none"> 9. Safety harness 10. Chemical suit 11. Life jackets/life vest Hard hat, goggles, coverall, safety shoes, gloves. 12. EEBD <p>Perform Lifting techniques and methods of preventing back injury;</p> <ol style="list-style-type: none"> 13. Adhere to Manual Handling technique as per Code of Safe Working Practices 14. Clear the route/ open doors that may obstruct you when transporting load using manual lift 15. Never bend your back when doing a manual lift specially 			



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	Chemical and biohazard safety C5.1.10 Personal safety equipment			when the weight of the object is unknown 16. Use your leg to lift/ lower objects 17. Taking necessary precaution to avoid accidents cause by manual lifting			
C6 Apply precautions and contribute to the prevention of pollution of the maritime environment	C6.1 Knowledge of the precautions to be taken to prevent pollution of the marine environment C6.2 Knowledge of the use and operation of anti-pollution equipment C6.3 Knowledge of the approved methods for disposal of marine pollutants	Observe procedures designed to safeguard the marine environment are always.	Criterion 15 Procedures designed to safeguard the marine environment are always observed	Precautions to be taken to prevent pollution of the marine environment; 1. Segregate ship's waste/ garbage in color coded drum (trash bin) ➤ What type of trash is thrown for black trash bin • Oily rags, incinerator ash ➤ What type of trash is thrown for red trash bin • Plastic/ plastic bottles ➤ What type of trash is thrown for yellow trash bin • bottles, papers, cans, crockery and etc.; ➤ What type of trash is thrown for blue trash bin • food waste			



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				<p>2- use and operation of anti-pollution equipment.</p> <p>1.Prepare Shipboard Oil Pollution Emergency equipment when alongside and performing cargo operation;</p> <ul style="list-style-type: none"> • 2 pcs. Scupper plug or wooden plug • 8 pcs. Absorbent Pad • 4 bags Saw dust • 8 pcs. broom or sweeper • 8 pcs. scoop or bailer • 4 pcs. Empty container or drum for oil spill <p>3- Give methods for disposal of marine pollutants</p> <ul style="list-style-type: none"> • All the wastes and hazardous chemicals from the ships should be disposed of in an ecologically friendly dumping center to minimize ocean pollution. • Garbage like metals, waste oils, medical waste, metal, glass, batteries, sludge and many more like this should be given away or incinerated to the reception facilities at the shore. • Compactors should be used to decrease the waste materials and plastics that can be compressed. 			



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				<ul style="list-style-type: none"> The Environmental Management System (EMS) should be maintained by every ship that would decrease waste production and enhance the standards for waste management. Marine operators and shipping organizations should constitute, prepare and implement a proper plan for recycling and management of the wastes during their voyage on the sea. 			
C7 Operate survival craft and rescue boats	Operate survival craft and rescue boats shall be addressed by presenting valid COP in Proficiency in Survival Craft and Rescue Boats (PSCRB)						



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FUNCTION 4: MAINTENANCE AND REPAIR AT THE SUPPORT LEVEL

<p>C8 Contribute to shipboard maintenance and repair</p>	<p>C8.1 Ability to use painting, lubrication and cleaning materials and equipment</p> <p>C8.2 Ability to understand and execute routine maintenance and repair procedures</p> <p>C8.3 Knowledge of surface preparation techniques</p> <p>C8.4 Understanding manufacturer's safety guidelines and shipboard instructions</p>	<p>At the end of the assessment the candidate must be able to:</p> <p>Carry out maintenance and repair activities in accordance with technical, safety and procedural specifications</p>	<p>Criterion 1 Maintenance and repair activities are carried out in accordance with technical, safety and procedural specifications</p>	<p>Carry out repair and maintenance activities in accordance with technical, safety and procedural specification;</p> <ol style="list-style-type: none"> 1. prepare surface for coating/painting 2. clean and maintain paintwork and deck surfaces including the use of rust remover 3. apply different coating sequences (paint or protective coatings) 4. lubricate and grease moving parts on deck including wires 5. Show proper handling and maintenance of hand and power tools including lubrication of join and secure components 6. Assemble /disassemble chipping gun 	<p>Checklist</p>	<p>Management</p>	<p>N/A</p>
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	<p>C8.5 Knowledge of safe disposal of waste materials</p> <p>C8.6 Knowledge of the application, maintenance and use of hand and power tools</p>			<p>7. secure equipment and leave working areas clean, tidy and safe</p> <p>8. Dispose waste as per MARPOL Regulation</p>			