

ASSESSMENT SCENARIO FUNCTION 1 – NAVIGATION AT THE SUPPORT LEVEL (ANNEX IV-A)						
Competence	KUP	Criteria of Evaluation	Simulation Title	Assessment Outcome	Ratings	Equipment Required
Contribute to berthing, anchoring and other mooring operations	1. Working knowledge of the mooring system and related procedures, including: .1 the function of mooring and tug lines and how each line functions as part of an overall system .2 the capacities, safe working loads and breaking strengths of mooring equipment, including mooring wires, synthetic and fibre lines, winches, anchor windlasses, capstans, bits, chocks and bollards .3 the procedures and order of events	<ul style="list-style-type: none"> Operations are carried out in accordance with established safety practices and equipment operating instructions 	1. Preparation for berthing	<ul style="list-style-type: none"> The candidate should have been able to demonstrate knowledge of : <ul style="list-style-type: none"> a. preparation for berthing/alongside by the use of mooring lines with its functions of each line as part of overall system 	Pass or Fail	Mooring winches with forward and aft station or its equivalent
			2. Preparation for unberthing	<ul style="list-style-type: none"> b. preparation for unberthing/unmooring by the use of mooring lines with its functions of each line as part of overall system and securing mooring equipment 	Pass or Fail	Mooring winches system with forward and aft station or its equivalent
			3. Identification of number of shackles	<ul style="list-style-type: none"> c. identifications of the number of shackles to be used during anchorage 	Pass or Fail	Anchor chain showing marks for shackles or its equivalent

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	for making fast and letting go mooring and tug lines and wires, including towing lines .4 the procedures and order of events for the use of anchors in various operations 2. Working knowledge of the procedures and order of events associated with mooring to a buoy or buoys		4. Preparations for making fast and letting go tug lines and wires	d. the procedures and orders of events for making fast and letting go tug lines and wires including the figure of eight method and stopper	Pass or Fail	Tug line or wires, stopper and bits or its equivalent
			5. Preparations for the mooring arrangement and identification of snap back system	e. arrangement of typical mooring operation either forward or aft station including the snap back system	Pass or Fail	Mooring equipment including synthetic or fiber mooring lines, fairleads, bits, chocks and bollard or its equivalent
			6. Preparations for the mooring to a buoy or buoys	f. the procedures on the preparation for picking up mooring hawser, use of messenger, picking up lines for running cables and use of chafe chains, gears and marker buoys	Pass or Fail	Mooring equipment including synthetic or fiber mooring lines, mooring buoys including the associated equipment or its equivalent

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ASSESSMENT SCENARIO FUNCTION 2 – CARGO HANDLING AND STOWAGE AT THE SUPPORT LEVEL (ANNEX IV-A)						
Competence	KUP	Criteria of Evaluation	Simulation Title	Assessment Outcome	Ratings	Equipment Required
Contribute to the handling of cargo and stores	1. Knowledge of procedures for safe handling, stowage and securing of cargoes and stores, including dangerous, hazardous and harmful substances and liquies 2. Basic knowledge of and precautions to observe in connection with particular types of cargo and identification of IMDG labelling	<ul style="list-style-type: none"> • Cargo and stores operations and carried out in accordance with established safety procedures and equipment operating instructions • The handling of dangerous, hazardous and harmful cargoes or stores complies with established safety practices 	Recognition on the markings on containers	The candidate should have been able to demonstrate knowledge of : the recognition of marks on the containers including labels and placards of IMDG classes	Pass or Fail	Marks on dummy/replicacargo containers or its equivalent including labels and placards of IMDG classes
			Stowage and Segregation of dangerous goods	the stowage and segregation of dangerous goods in accordance with IMDG Code	Pass or Fail	Dummy/replica of cargo container boxes including labels and placards of IMDG classes
			Identification of Dangerous goods on the cargo plan	identification of dangerous goods on the cargo plan by its bay, tier and row	Pass or Fail	Cargo plan with dangerous cargo legends

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Competence	KUP	Criteria of Evaluation	Simulation Title	Assessment Outcome	Ratings	Equipment Required
			1. Lashing and unlashings of containers	d. lashing and unlashings of containers by its correct procedures in a multiple tiers	Pass or Fail	Dummy/replica of cargo containers or its equivalent with lashing equipment such as short and long rods, pad eyes, twistlocks, fittings, turn buckles and spanner used for securing containers
			2. Securing of paint drums or ship's stores	e. securing of paint drums or ship's stores by the use of different securing equipment or tools	Pass or Fail	Paint drums or its equivalent with lashing equipment used such as chain or pelican hook for securing containers
			3. Handling of dangerous, hazardous and harmful stores or cargoes in the event of leaks and spills	f. the safety procedures on handling of dangerous, hazardous and harmful stores or cargoes in the event of leaks and spills	Pass or Fail	Protective Chemical suit or its equivalent

ASSESSMENT SCENARIO FUNCTION 3 – CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE SUPPORT LEVEL (ANNEX IV-A)						
Competence	KUP	Criteria of Evaluation	Simulation Title	Assessment Outcome	Ratings	Equipment Required
Contribute to the safe operation of deck equipment and machinery	1. Knowledge of deck equipment, including: .1 function and uses of valves and pumps, hoists cranes, cranes, boom and related equipment .2 function and uses of winches, windlasses, capstans and related equipment .3 hatches, watertight doors, ports and related equipment .4 fibre and	<ul style="list-style-type: none"> Operations are carried out in accordance with established safety practices and equipment operating instructions 	1. Identification of the color codes of valves	The candidate should have been able to demonstrate knowledge of : a. the identification of the color codes of valves and its uses	Pass or Fail	Diagrams of valves and its color codes
			2. Construction, use, markings, maintenance and proper stowage of wires	b. the construction, use, markings, maintenance and proper stowage of wires	Pass or Fail	Wires, Vernier caliper

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Competence	KUP	Criteria of Evaluation	Simulation Title	Assessment Outcome	Ratings	Equipment Required
	<p>wire ropes, cables and chains, including their construction, use, markings, maintenance and proper stowage</p> <p>.5 ability to use and understand basic signals for the operation of equipment, including winches, windlasses, cranes and hoists</p> <p>.6 ability to operate anchoring equipment under various conditions, such as anchoring, weighing</p>	<ul style="list-style-type: none"> • Communications within the operator's area of responsibility are consistently successful • Equipment operation is safely carried out in accordance with established procedures 	<p>3. Take charge of lifting appliances in the role of signaller</p>	<p>c. The signalling when lifting a cargo to the crane driver</p>	<p>Pass or Fail</p>	<p>Crane or its equivalent (Mechanical or Simulator based)</p>
			<p>4. Preparation for letting go and heaving up anchor</p>	<p>d. the procedures and orders of events for the use of anchor in letting go or heaving up anchor</p>	<p>Pass or Fail</p>	<p>Anchor windlass or its equivalent</p>

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	anchor, securing for sea, and in emergencies 2. Knowledge of the following procedures and ability to: .1 rig and unrig bosun's chairs and staging .2 rig and unrig pilot ladders, hoists, rat guards and gangways .3 use marlin spike seamanship skills, including the proper use of knots, splices and stoppers 3. Use and handling of	<ul style="list-style-type: none"> • Demonstrate the proper methods for rigging and unrigging in accordance with safe industry practice • Demonstrate the proper creation and use of knots, splices, stoppers, whipping, servings as well as proper canvas handling 	5. Rigging and unrigging of stages with safety practices	e. the procedures on how to rig and unrig the stages in accordance with safe industry practice	Pass or Fail	Set of Stages

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Competence	KUP	Criteria of Evaluation	Simulation Title	Assessment Outcome	Ratings	Equipment Required
	deck and cargo-handling gear and equipment: .1 access arrangements, hatches and hatch covers, ramps, side/bow/stern doors or elevators .2 pipeline systems – bilge and ballast suctions and wells .3 cranes, derrick, winches 4. Knowledge of hoisting and dipping flags and the main single-flag signals (A, B, G, H, O, P, Q)	<ul style="list-style-type: none"> • Demonstrate the proper use of blocks and tackles • Demonstrate the proper methods for handling lines, wires, cables and chains 	6. Operate hoists, cranes and booms	f. The procedures on how to operate the crane by lifting cargo or stores in one place to the other (blind area)	Pass or Fail	Crane or its equivalent (Mechanical or Simulator based)

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Competence	KUP	Criteria of Evaluation	Simulation Title	Assessment Outcome	Ratings	Equipment Required
Apply occupational health and safety precautions	1. Knowledge of safe working practices and personal shipboard safety including: .1 working aloft .2 working over the side .3 working in enclosed spaces .4 permit to work system .5 line handling .6 lifting techniques and methods of preventing back injury .7 electrical safety	<ul style="list-style-type: none"> • Preparation on working over side 	1. The safety procedures when working over side with the use of bosun's chair	The candidate should have been able to demonstrate knowledge of : a. The safety procedures when working aloft	Pass or Fail	Safety Checklist, safety harness, fall arrester, bosun chair or stage
			2. Preparation on working in enclosed spaces	b. The safety procedures when working in enclosed spaces	Pass or Fail	Materials used in the Checklist, enclosed space
			3. Preparation on working over side	c. The safety procedures when working over side with the use of stage	Pass or Fail	Safety Checklist, safety harness, fall arrester and stage

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Competence	KUP	Criteria of Evaluation	Simulation Title	Assessment Outcome	Ratings	Equipment Required
	.8 mechanical safety .9 chemical and biohazard safety .10 personal safety equipment		4. Lifting techniques and methods of preventing back injury	d. The safety procedures on the proper lifting techniques of heavy loaded box or big box	Pass or Fail	Box with heavy load and big box or its equivalent
			5. Preparation working on chemical and biohazard safety	e. The safety procedures when working over side	Pass or Fail	Saety Checklist, safety harness, fall arrester, work vest, and stage
			6. Identification of Personal safety equipment	f. Identification of Personal safety equipment and its uses	Pass or Fail	Presentation of the safety equipment by illustration or actual equipment

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ASSESSMENT SCENARIO FUNCTION 4 - MAINTENANCE AND REPAIR AT THE SUPPORT LEVEL (ANNEX IV-A)						
Competence	KUP	Criteria of Evaluation	Assessment Title	Assessment Outcome	Ratings	Equipment Required
Contribute to shipboard maintenance and repair	1. Ability to use painting, lubrication and cleaning materials and equipment harmful	<ul style="list-style-type: none"> Maintenance and repair activities are carried out in accordance with technical, safety and procedural specifications 	1. Cleaning and lubrication of machines through grease nipples, blocks, chocks, fairleads and other moving parts	<ul style="list-style-type: none"> The candidate should have been able to demonstrate knowledge of : <ul style="list-style-type: none"> a. application of proper cleaning and lubricating technique to different grease nipples of the machine or blocks, chocks, fairleads or other moving parts 	Pass or Fail	Grease gun, winches or other similar machine installed with grease nipples of the machine or blocks, chocks, fairleads or other moving parts or its equivalent
	2. Ability to understand and execute routine maintenance and repair procedures		2. Preparation of surface by the use of manual chipping hammer and powered scaling equipment	<ul style="list-style-type: none"> b. surface preparation by the use of manual chipping hammer, scraper and powered scaling equipment 	Pass or Fail	Any surface sufficient for practical demonstration using chipping hammer, scrapers and powered scaling equipment or its equivalent
	3. Knowledge of surface preparation techniques		3. Application of different coating sequences	<ul style="list-style-type: none"> c. application of different coating sequences according to its manufacturer's instructions 	Pass or Fail	Any surface sufficient for practical demonstration for painting
	4. Understand manufacturer's safety guidelines and shipboard instructions		4. Use of Painting and other surface application equipment	<ul style="list-style-type: none"> d. application of proper surface preparation on any metal by the use of paint spray or its equivalent 	Pass or Fail	Any surface sufficient for practical demonstration for painting
	5. Knowledge of safe disposal of waste materials					
	6. Knowledge of the application, maintenance					

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Competence	KUP	Criteria of Evaluation	Assessment Title	Assessment Outcome	Ratings	Equipment Required
	and use of hand and power tools		5. Preparation on the correct procedures for disposal of paint residues, solvent and sweepings	e. application of proper disposal of the paints residues, solvent and sweepings	Pass or Fail	paints residues, solvent and sweepings
			6. Assembly of the parts of the jet chisel	f. Assemble correctly the parts of the jet chisel	Pass or Fail	jet chisel

Passing grade: Pass or Fail