

ABLE SEAFARER ENGINE – TABLE III /5 Minimum Assessment Exercises for Ratings as Able Seafarer Engine in a manned engine-room or designated to perform duties in a periodically unmanned engine-room

ASSESSMENT SCENARIO FUNCTION 1 - MARINE ENGINEERING AT THE SUPPORT LEVEL (ANNEX IV-B)						
Competence	KUP	Criteria of Evaluation	Simulation Title	Assessment Outcome	Ratings	Equipment Required
Contribute to fuelling and oil transfer operations	<p>Knowledge of the function and operation of fuel system and oil transfer operations, including:</p> <ol style="list-style-type: none"> 1. reparations for fueling and transfer operations 2. rocedures for connecting and disconnecting fuelling and transfer hoses 3. proced ures relating to incidents that may arise during fuelling or transferring operation 	<ul style="list-style-type: none"> • Transfer operations are carried out in accordance with established safety practices and equipment operating instructions • The handling of dangerous, hazardous and harmful liquids complies with established safety practices • Communications within the operator's area of responsibility are consistently successful 	1. Bunkering at Port	<p>➤ The candidate should be able to demonstrate knowledge of:</p> <ol style="list-style-type: none"> a. Preparation for bunkering and transferring operation b. Measuring and reporting of tank level 	<p>Pass or Fail</p> <p>Pass or Fail</p>	Engine Simulator/ laboratory workshop
			2. Bunkering at Anchorage	<p>➤ The candidate should be able to demonstrate knowledge of:</p> <ol style="list-style-type: none"> a. Preparation for bunkering and transferring operation b. Measuring and reporting of tank level 	<p>Pass or Fail</p> <p>Pass or Fail</p>	Engine Simulator/ laboratory workshop
			3. Securing procedure after bunkering	<p>➤ The candidate should be able to demonstrate knowledge of:</p> <ol style="list-style-type: none"> a. Disconnecting fuelling and transfer hoses b. Securing from fuelling and transfer operation 	<p>Pass or Fail</p> <p>Pass or Fail</p>	Engine Simulator / laboratory workshop

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	4. securin g from fueling and transfer operations 5. ability to correctly measure and report tank levels		4. Leaking at bunkering manifold	➤ The candidate should be able to demonstrate knowledge of: a. Safety procedures to take in case of leakage during bunkering	Pass or Fail	Engine Simulator/ laboratory workshop
Contribute to bilge and ballast operations	Knowledge of the safe function, operation and maintenance of the bilge and ballast systems, including: 1. reportin g incidents associated with transfer operations 2. ability to correctly measure and report tank levels	Operations and maintenance are carried out in accordance with established safety practices and equipment operating instructions and pollution of the marine environment is avoided Communications within the operator's area of responsibility are consistently successful	1. Bilge pumping operation	➤ The candidate should be able to demonstrate knowledge of: a. Safety procedure in transferring of bilges b. Measuring and reporting of tank levels	Pass or Fail Pass or Fail	Engine Simulator/ laboratory workshop
			2. Engine room flooding	➤ The candidate should be able to demonstrate knowledge of : a. Reporting incident relating to transferring operation b. Safety procedure to take in case of engine room flooding	Pass or Fail Pass or Fail	Engine Simulator/ laboratory workshop

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Contribute to the operation of equipment and machinery	Safe operation of equipment, including: .1 valves and pumps .2 hoists and lifting equipment .3 hatches, watertight doors, ports and related equipment	Operations are carried out in accordance with established safety practices and equipment operating instructions	1. Discharging sludge to shore facilities	➤ The candidate should be able to demonstrate knowledge of: a. Valves exercising b. Correct positioning of discharge hose c. Correct reporting while on watch	Pass or Fail Pass or Fail Pass or Fail	Engine Simulator/ laboratory workshop
	Ability to use and understand basic crane, winch and hoist signals	Communications within the operator's area of responsibility are consistently successful	2. Taking in provision by using provision crane	➤ The candidate should be able to demonstrate knowledge of: a. Correct lifting procedure b. Signals in using crane	Pass or Fail Pass or Fail	Simulator/ laboratory workshop

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ASSESSMENT SCENARIO FUNCTION 3 - MAINTENANCE AND REPAIR AT THE SUPPORT LEVEL (ANNEX IV-B)						
Competence	KUP	Criteria of Evaluation	Assessment Title	Assessment Outcome	Ratings	Score
Contribute to shipboard maintenance and repair	Ability to use painting, lubrication and cleaning materials and equipment Ability to understand and execute routine maintenance and repair procedures Knowledge of surface preparation techniques Knowledge of safe disposal of waste materials Understanding	Maintenance activities are carried out in accordance with technical, safety and procedural specifications Selection and use of equipment and tools is appropriate	1. Painting boiler room	➤ The candidate should be able to demonstrate the ability of: a. using freshwater for surface preparation b. using a degreasing materials for surface preparation c. using hand scrapers, chipping hammer and wire brushes	Pass or Fail Pass or Fail Pass or Fail	Laboratory workshop / tools
			2. Seawater pump gasket change	➤ The candidate should be able to demonstrate the ability of: a. Electrical Isolation b. Tracing seawater system (valves to isolate) c. Using lifting materials (shackle, sling, chain block) d. Using tools and measuring instruments	Pass or Fail Pass or Fail Pass or Fail Pass or Fail	Laboratory workshop equipment/tools

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Competence	KUP	Criteria of Evaluation	Assessment Title	Assessment Outcome	Ratings	Score
	<p>manufacturer's safety guidelines and shipboard instructions</p> <p>Knowledge of the application, maintenance and use of hand and power tools and measuring instruments and machine tools</p> <p>Knowledge of metal work</p>		3. Patching 1 inch pipe hole	<p>➤ The candidate should be able to demonstrate the ability to:</p> <p>a. Measure dimensions in metal works</p> <p>b. Prepare the surface area/distinguish metals to be worked upon</p> <p>c. select correct PPE</p> <p>d. Weld by using electric arc welding</p> <p>e. Dispose workshop waste</p>	<p>Pass or Fail</p> <p>Pass or Fail</p> <p>Pass or Fail</p> <p>Pass or Fail</p> <p>Pass or Fail</p>	Laboratory workshop equipment/tools

Passing grade: Pass or Fail