

ASSESSMENT CRITERIA MATE – OSV ON NEAR COASTAL WATERS (INTERNATIONAL)
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Attached are proposed assessment criteria for evaluating the competency of candidates for an original license as Mate–OSV on vessels of less than 500 GRT (3,000 ITC) on near coastal waters within 200 miles off any coast around the world. Although the criteria are based on the STCW competency Table A-II/1 for officer in charge of a navigation watch of vessels of more than 500 gross tons, they have been modified as permitted by 46 CFR 10.497 to make them appropriate for implementation on OSV's.

It should be noted that the primary modification was the *addition* of numerous competencies from Table II/2 because the mate of an OSV performs many of the activities of the Chief Mate and Master. Activities were also added to address items from the Coast Guard test topic table in 46 CFR 10.910 that are not found in the STCW tables.

This table is for candidates who are applying for their *first* license. Assessment criteria for evaluating licensed mates who want to extend a route from a “domestic “ restriction to full near coastal authority are listed in the “route extension” table. It should also be noted that the assessment criteria for the oceans route are not included in this table. The criteria in the Table for Master/Mate (OSV) — Oceans Addendum will be used for assessment of that competency.

In determining the appropriate method of assessment, close attention was paid to the equipment available on an OSV, most notably in the area of navigation. Because most OSV's do not have the means to take precise visual bearings, those navigation techniques involving visual bearings may be performed in a laboratory situation.

Those activities which must be demonstrated on board ship are:

Fix position by use of marine radar. Determine dead reckoning position. Determine set and drift of current. Determine course to steer based on set and drift. Use GPS. Use GPS man overboard/emergency save feature. Use LORAN (if available). Use echo sounders.	Determine magnetic compass error. Changing over steering system. Read and interpret information from wind vane and/or anemometer. Apply rules of the road. Maintain a navigational watch. Shift to emergency steering. Speak the English language.	Communicate by radiotelephone. Maneuver the vessel. Stow and secure cargoes. Transfer dry and liquid bulk cargoes. Organize and conduct drills. Respond to emergencies.
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The remainder can be adequately assessed either in a laboratory setting, written exam, simulator, on board demonstration, or through completion of an approved training program.

The assessment criteria for oceans navigation are not included in this table. If a candidate for Mate applies for the oceans endorsement, the criteria in the Table for Master/Mate (OSV) — Oceans Addendum will be added for assessment of that competency.

It is understood that these criteria do not represent the final assessment tools to be used when demonstrating proficiency. Just as a performance standard requiring a “minimum score of 70% on a written exam” implies the development of a valid exam, a standard that requires radiotelephone procedures to be “conducted in accordance with regulations and accepted procedures” implies the use of an assessment form describing those regulations and procedures which can be used by a designated examiner in the conduct of the demonstration.

Function: Navigation

Competence: Plan and conduct a passage and determine position

**TABLE A-II/1 ASSESSMENT CRITERIA
MATE – OSV ON NEAR COASTAL WATERS (INTERNATIONAL)**

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
Terrestrial Navigation: Ability to determine the ship's position and conduct a passage.	Fix position by plotting two or more visual bearings of charted objects.	On board ship or Laboratory	Fix vessel's position by plotting two or more visual bearing LOP's of identified charted objects.	Fix is within +/- .1 mile of vessel's actual position. Crossing angles of bearings should be not less than 30° but not more than 160°.
	Fix position by plotting two or more visual bearings of charted aids to navigation.	On board ship or Laboratory	Fix vessel's position by plotting two or more visual bearing LOP's of charted aids to navigation.	Fix is within +/- .1 mile of vessel's actual position. Crossing angles of bearings should be not less than 30° but not more than 160°.
	Fix position by use of marine radar.	On board ship	Fix position by plotting two or more radar ranges	Fix is within +/- .1 mile of vessel's actual position.
	Determine dead reckoning position.	On board ship	Plot the vessel's DR position.	DR is within +/- .1 mile from assessor's DR.
	Determine set and drift of the current.	On board ship	Plot vessel's position two or more times not less than 30 minutes apart. Use DR's and fixes to determine the set and drift of the current and then compute course to steer to make good a given course.	Response is within +/- 5° of the assessor solution.
	Determine course to steer based on set and drift experienced.	On board ship	After finding set and drift, compute course to steer to make good a given course.	Response is within +/- 5° of the assessor solution.
	Knowledge of and ability to use charts and pubs, such as sailing directions, coast pilots, tide and current tables, notices to mariners, and radio navigational warnings.	Written exam	Demonstrate knowledge of types of charts, chart scales, chart symbols, and chart notes, as well as use of navigation publications.	70% minimum score on written exam

Function: Navigation

Competence: Plan and conduct a passage and determine position

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
Terrestrial Navigation: Ability to determine the ship's position. (continued)	Calculate tides and currents.	Written exam	Calculate tides and currents.	70% minimum score on written exam

TABLE A-II/1 ASSESSMENT CRITERIA
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	Voyage planning and navigation for all conditions.	Written exam	Complete a comprehensive exercise that includes planning a voyage, using the required navigation charts and publications and accounting for: <ul style="list-style-type: none"> – Route – Local conditions – Local regulations – Water depths – Weather – Tides and currents – Aids to navigation – Hazards to navigation 	
Electronic systems of position fixing and navigation	Use of GPS.	On board ship	Determine ship's position by GPS and evaluate its accuracy.	Determine PDOP, mode, recency of data and other indicators of position accuracy.
	Use of GPS man overboard/emergency save feature.	On board ship	Use the GPS man overboard/emergency save feature.	Use the save feature within one minute.
	Use of LORAN (if available).	On board ship	Determine ship's position and evaluate the accuracy of the LORAN position.	LORAN set is properly initialized and reads vessel position within manufacturer's tolerance.

TABLE A-II/1 ASSESSMENT CRITERIA
MATE – OSV ON NEAR COASTAL WATERS (INTERNATIONAL)

Function: Navigation

Competence: Plan and conduct a passage and determine position

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
Electronic systems of position fixing and navigation <i>(continued)</i>	Understand operating principles, limitations, sources of error and methods of correction.	Written exam	Know operating principles, limitations, sources of error and methods of correction.	70% minimum score on written exam
Echo sounders	Use of echo sounders.	On board ship	Operate echo sounder.	Initialize unit, do performance check, select proper scale, and adjust sensitivity to obtain optimum display.
Compasses—Magnetic and gyro	Understand principles—magnetic and gyro compass.	Exam	Describe the principles, components, operation, and care.	70% minimum score on written exam
	Determine magnetic compass errors.	On board ship	Use deviation table, charts, and exercises to calculate various compass errors and then apply corrections to determine true or magnetic course.	
	Understand systems under the control of the main gyro.	Exam	Describe the relationship of the master gyro and the systems under its control.	

TABLE A-II/1 ASSESSMENT CRITERIA
MATE – OSV ON NEAR COASTAL WATERS (INTERNATIONAL)

Function: Navigation

Competence: Plan and conduct a passage and determine position

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
Steering control systems	Understand steering control systems.	Exam	Describe principles, components, and operation.	70% minimum score on written exam.
	Changing over and adjusting controls.	On board ship	Initialize unit, conduct checks, and switch modes.	All tasks are performed in accordance with manufacturer and company procedures and selection of mode is suitable for prevailing weather, sea, and traffic conditions.
Meteorology	Read and interpret information from barometer.	On board ship or Laboratory	Read barometer.	Barometer is read within +/- .02" or +/- .1 millibars of actual reading. Evaluation and interpretation of a series of readings is reasonable.
	Read and interpret information from wet and dry bulb thermometer.	On board ship or Laboratory	Calculate the dew point.	Dewpoint is calculated within 1° of the assessor's solution.
	Read and interpret information from the wind vane and/or anemometer.	On board ship	Calculate true wind speed and direction.	Wind speed is calculated to within +/- 5 mph and wind direction is calculated to within +/- 10° of assessor solution.
	Understand characteristics of various weather systems and reporting and recording systems.	Exam	Describe global weather patterns, movement and interaction of air masses, and reporting systems.	70% minimum score on written exam.

TABLE A-II/1 ASSESSMENT CRITERIA
MATE – OSV ON NEAR COASTAL WATERS (INTERNATIONAL)

Function: Navigation

Competence: Maintain a safe navigational watch

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
Watchkeeping principles	Know the inland and international rules of the road regarding applicable waters, definitions, safe speed, good seamanship, look-outs, traffic separation schemes, and narrow channels.	Exam	Describe and apply the rules of the road regarding applicable waters, definitions, safe speed, good seamanship, look-outs, traffic separation schemes, and narrow channels.	90% minimum score on written exam
	Know the inland and international rules regarding lights and dayshapes.	Exam	Identify vessels by lights and dayshapes.	
	Know the inland and international rules regarding operation in restricted visibility.	Exam	List rules for operation in restricted visibility and the requirements for sound signals.	
	Know the rules that apply when risk of collision exists.	Exam	List the requirements for sound signals and maneuvering when risk of collision exists.	
	Apply the rules of the road.	On board ship	Comply with the rules of road while standing a navigation watch.	Display required lights and shapes, sound appropriate signals, maneuver in accordance with the rules, and take all other actions demanded by the situation.
	Know the basic principles to be observed in keeping a navigation watch.	Exam	Describe the standards of Chapter VIII of the STCW Code related to keeping a navigational watch.	70% minimum score on written exam.

TABLE A-II/1 ASSESSMENT CRITERIA
MATE – OSV ON NEAR COASTAL WATERS (INTERNATIONAL)

Function: Navigation

Competence: Maintain a safe navigational watch

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
Watchkeeping principles <i>(continued)</i>	Apply the basic principles to be observed in keeping a navigational watch.	On board ship	Follow the basic principles to be observed in keeping a navigational watch.	Watch is stood in compliance with the standards of Part 3-1 of Chapter VIII of the STCW Code that are appropriate to OSV's.
	Know the principles and techniques of effective bridge teamwork procedures, including: – effective communications among the bridge team – error chain analysis – situational awareness – voyage planning – bridge procedures and watch arrangements – watchstander skill development – effective leadership	Approved course or on board ship	Describe the elements in the performance objective and in Section B-VIII/2 regarding bridge resource management.	Watchstanding duties are performed in accordance with Section B-VIII/2 and the performance objective.

Competence: Use of radar and ARPA to maintain safety of navigation

Radar navigation	Know the fundamentals of radar.	Exam as part of approved course	Describe the fundamentals and operating principles of radar.	70% minimum score on written exam.
These objectives will be met through completion of an approved course.	Analyze factors affecting performance and accuracy.	On board ship or Simulator as part of approved course	Plot range and bearing of prominent coastal feature to fix and compare vessel's position with another source of information.	Fix is within +/- 0.5 miles from assessor solution.
	Set up radar.	On board ship or Simulator as part of approved course	Power up and tune the radar, including tune, gain brilliance, and anti-clutter controls.	Radar is properly tuned and appropriate range is selected within 3 minutes.
	Change displays and recognize which mode is displayed on scope.	On board ship or Simulator as part of approved course	Identify displays as they appear on the scope.	Mode displayed is correctly identified.

Function: Navigation

Competence: Use of radar and ARPA to maintain safety of navigation *(continued)*

**TABLE A-II/1 ASSESSMENT CRITERIA
MATE – OSV ON NEAR COASTAL WATERS (INTERNATIONAL)**

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
Radar navigation <i>(continued)</i>	Recognize types of misrepresentation of information.	Exam as part of an approved training course or Simulator or On board ship	Recognize and minimize misrepresented information such as false echoes, sea return, etc.	Correctly identify misrepresented targets, false echoes, and sea return from valid targets.
These objectives will be met through completion of an approved course.	Identify and locate Racons and SART's.	On board ship or Simulator as part of an approved training course	Identify and locate Racons and SART's.	Determine range and bearing to Racon or SART within +/- 10% of range scale and +/- 3° of the assessor's bearing.
	Use radar to determine range, bearing, course, speed of other ships, along with time and distance of CPA.	On board ship or Simulator as part of an approved training course	Determine range, bearing, course, speed of other ships, along with time and distance of CPA.	Determine range and bearing within +/- 10% of the range scale in use and +/- 3° of the assessor's bearing. Correctly assess risk of collision. Relative motion is determined within +/- 5° of the assessor's solution. CPA is determined within +/- 0.5 miles of the assessor's solution. Time is within +/- 3 minutes of the assessor's solution. Target's true course is within +/- 5° of the assessor's solution. Target's true speed is within +/- 10% of the solution.
	Application of the rules of the road.	Exam as part of an approved training course	Describe the rules that apply to the use of radar.	70% minimum score on written exam

Function: Navigation

Competence: Use of radar and ARPA to maintain safety of navigation *(continued)*

**TABLE A-II/1 ASSESSMENT CRITERIA
MATE – OSV ON NEAR COASTAL WATERS (INTERNATIONAL)**

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
Radar navigation <i>(continued)</i>	Use parallel indexing.	On board ship or Simulator as part of approved course	Plan and construct parallel index lines to keep vessel on specified course line.	Vessel does not stray more than 10% of the distance to the parallel index line.
The objectives on this page must be met only by those who want authority to serve on ARPA-equipped vessels.	Principal types of ARPA, including their display characteristics, performance standards, and the dangers of reliance on ARPA	Exam as part of an approved course	Describe the principal types of ARPA and the dangers or reliance on them.	70% minimum score on written exam
	Operate ARPA and interpret and analyze information, including system performance, tacking capabilities and limitations, and processing delays.	On board ship or Simulator as part of approved course	Compare the graphic solution to those obtained from ARPA and identify the trend as opposed to the final result after 3 minutes.	Solution will be +/- 0.3 miles, +/- 3 minutes, +/- 5° from the course, +/- 10% of the speed. Vector updating will be observed on scope.
	Set operational warnings and conduct system tests.	On board ship or Simulator as part of approved course	Establish appropriate guard rings, exclusion zones, dangerous target parameters and test system.	Guard rings and exclusion zones established within 2 minutes and target parameters established within 1 minute.
	Know methods of acquiring targets and their limitations	On board ship or Simulator as part of approved course	Acquire targets manually.	Target is acquired within 10 seconds.
	Establish true and relative vectors, graphic representation of target information and danger areas.	On board ship or Simulator as part of approved course	Switch between display modes and demonstrate past position display of targets (trails, tails, and wakes).	Actions concluded satisfactorily within 10 seconds.
	Derive and analyze information, critical echoes, exclusion areas and trial maneuvers.	On board ship or Simulator as part of approved course	Establish a trial maneuver mode to determine a safe course and/or speed change to achieve a 2 mile CPA.	Actions concluded satisfactorily within 30 seconds.

Function: Navigation

Competence: Respond to emergencies

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
Emergency procedures	Take precautions for the protection of passengers in emergencies.	Exam	List emergency duties and alarm signals.	70% minimum score on written exam

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	Take actions prior to and following a collision or grounding, including damage assessment and control.	Exam	List actions to be taken.	
	Understand procedures for rescuing persons and assisting ships in distress.	Exam	Describe procedures to be taken as well as equipment to be used.	
	Understand precautions to take when beaching a ship.	Exam	List precautions.	
	Refloat a grounded ship.	Exam	Describe the procedures.	
	Assess damage control.	Exam	Given a scenario and a response taken, evaluate the appropriateness of the actions taken and their effectiveness.	
	Shift to emergency steering.	On board ship	Describe the procedures.	Emergency steering is effected in accordance with standard operating procedures.
	Emergency towing procedures.	Exam	List the procedures.	70% minimum score on exam

Competence: Respond to a distress signal at sea

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
Respond to a distress signal at sea.	Know search and rescue techniques.	Exam	Describe search methods, communications, and reporting procedures.	70% minimum score on written exam
	Know MERSAR.	Exam	Use MERSAR for guidance on rendering assistance, on-scene coordination, and on-board emergencies.	

Function: Navigation

Competence: Use Standard Navigational Vocabulary

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
Use English language.	Read English language.	Exam	Read English in charts, nautical publications, meteorological information.	70% minimum score on written exam
	Speak English language.	On board ship	Use English in communications with other vessels and crew.	Communications are clear and understandable.

TABLE A-II/1 ASSESSMENT CRITERIA
MATE – OSV ON NEAR COASTAL WATERS (INTERNATIONAL)

	Use Standard Marine Navigational Vocabulary.	Exam	Use proper terminology.	70% minimum score on written exam
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Competence: Transmit and receive information by visual signaling and radiotelephony

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
Visual signaling	Transmit and receive flag hoist and radiotelephone messages by the International Code of Signals.	Exam	Use International Code of Signals to transmit and receive messages.	70% minimum score on written exam
Radiotelephone communications	Understand legal requirements for radiotelephone communications.	Exam	List equipment, licensing, and logkeeping requirements	
	Understand radiocommunication principles.	Exam	Describe differences in radiotelephone equipment and broadcasting frequencies.	
	Transmit and receive messages by radiotelephone.	On board ship	Use radiotelephone to transmit and receive messages.	Communications are conducted in accordance with regulations and accepted procedures.

TABLE A-II/1 ASSESSMENT CRITERIA
MATE – OSV ON NEAR COASTAL WATERS (INTERNATIONAL)

Function: Navigation

Competence: Maneuver the ship

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
Ship handling	Know the effects of ship construction, propulsion, interaction with other vessels, and environmental factors on maneuvering and handling.	Exam	Describe the effects of ship construction, propulsion, and environmental factors on maneuvering and handling.	70% minimum score on written exam
	Know the procedures for anchoring and mooring.	Exam	List the procedures.	
	Maneuver the vessel safely in the following situations: <ul style="list-style-type: none"> – Undocking – Docking – Anchoring/weighing anchor – Mooring to a mooring buoy – Open water navigation – Restricted waters navigation – Holding position – Maneuvering to pick up persons in the water – Restricted visibility maneuvering 	On board ship	Conduct the evolutions listed.	Vessel is handled in an efficient, prudent, and seamanlike manner, staying within safe operating limits and maintaining the safety of navigation with respect to other vessel traffic.
Operating principles of marine power plants	Know the principles of operation of various propulsion plants and related auxiliary systems.	Exam	Describe the operation of propulsion systems, propellers and shafting, generators, and the systems for fuel oil, bilge, sanitary, potable water, heating, ventilation, air conditioning, and steering.	70% minimum score on written exam

Function: Cargo handling and stowage

Competence: Monitor the loading, stowage, securing and unloading of cargoes and care during the voyage

TABLE A-II/1 ASSESSMENT CRITERIA
MATE – OSV ON NEAR COASTAL WATERS (INTERNATIONAL)

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
Cargo handling, stowage, and securing	Know the safe handling of cargoes, including hazardous cargoes.	Exam	Describe procedures for cargo handling, including signaling, rigging, and stowage, particularly the bulk liquid and dry materials carried on OSV's.	70% minimum score on written exam
	Know the effect of cargo on stability and seaworthiness.	Exam	Describe the limitations for cargo carriage on OSV's in relation to the vessel's stability letter.	
	Know and apply regulations, codes, and standards regarding cargo handling.	Exam	Apply relevant sections of the CFR and codes to cargo handling situations.	
	Understand and assist in the transfer of drillwater, dry bulk cargoes, and liquid bulk cargoes.	On board ship	Participate in the transfer of drillwater, dry bulk cargoes, and liquid bulk cargoes.	Cargoes are transferred safely, efficiently, and without contamination or pollution. (Two loadings and two discharges required.)
	Stow and secure cargoes, including cargo-handling gear and lashing equipment.	On board ship	Stow and secure cargoes.	Cargo is stowed and secured in a manner that is stable, safe, and efficient.
Carriage of dangerous cargoes	Know the precautions and care of carrying dangerous cargoes.	Exam	Describe the requirements and recommended operational procedures for carrying dangerous cargoes, including labeling, packaging, and stowage.	70% minimum score on written exam

**TABLE A-II/1 ASSESSMENT CRITERIA
MATE – OSV ON NEAR COASTAL WATERS (INTERNATIONAL)**

Function: Controlling the operations of the ship and care for persons on board

Competence: Ensure compliance with pollution prevention regulations

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
Pollution prevention procedures	Know the precautions to be taken to prevent pollution.	Exam	List the precautions to be taken in compliance with MARPOL and U.S. regulations.	70% minimum score on written exam
	Know equipment associated with pollution prevention and clean-up.	Exam	Describe the equipment.	

Competence: Maintain seaworthiness of the ship

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
Ship stability	Know and apply stability and trim tables.	Exam	Calculate and evaluate stability using a stability letter and data commonly available on an OSV.	70% minimum score on written exam
	Understand fundamental actions to be taken for partial loss of intact stability.	Exam	List actions to be taken for partial loss of intact stability.	
	Understand fundamentals of watertight integrity.	Exam	Describe the actions to be taken to ensure and maintain watertight integrity.	
	Understand fundamental principles of construction and stability.	Exam	List the ways that a vessel's construction affects its stability and seaworthiness	
	Know the stability effects of flooding and countermeasures.	Exam	Calculate the impact of flooding and free surface effects.	
Ship construction	Know the principal structural members and the proper names of various parts of a ship.	Exam	List the principal structural members and the proper names of various parts of a ship.	

Function: Controlling the operations of the ship and care for persons on board

Competence: Prevent, control and fight fires on board

**TABLE A-II/1 ASSESSMENT CRITERIA
MATE – OSV ON NEAR COASTAL WATERS (INTERNATIONAL)**

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
Fire prevention and fire-fighting appliances	Know fire protection techniques	Exam	List the techniques for fire protection, including vessel layout and construction and operational procedures.	Complete an approved training course.
	Organize fire and abandon ship drills.	Exam	Describe the organization and conduct of effective drills.	
	Know classes and chemistry of fire.	Exam	List the classes of fires and their associated combustible materials.	
<div style="border: 1px solid black; padding: 5px;"> <p>The objectives on this page will be met through completion of an approved basic and advanced firefighting course.</p> </div>	Know firefighting systems.	Exam	Describe the firefighting systems commonly found in shipboard use.	
	Take actions to protect all persons on board in an emergency.	Exam	Describe the actions to take to protect persons.	
	Take actions to limit damage and save the ship following a casualty.	Exam	List the actions to limit damage and save the ship.	
	Know the actions to take in the event of fire.	Proficiency demonstration	<ul style="list-style-type: none"> - Use various types of portable extinguishers. - Use self-contained breathing apparatus. - Extinguish smaller fires. - Extinguish extensive fires. - Extinguish fires with foam or other suitable chemical agent. - Fight fire in smoke filled enclosed spaces wearing self contained breathing apparatus. - Extinguish fire with water fog. - Extinguish oil fire with fog applicator, dry chemical, or foam applicator. - Effect a rescue in a smoke filled space wearing breathing apparatus. 	

**TABLE A-II/1 ASSESSMENT CRITERIA
MATE – OSV ON NEAR COASTAL WATERS (INTERNATIONAL)**

Function: Controlling the operations of the ship and care for persons on board

Competence: Operate life-saving appliances

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
Lifesaving	Know survival craft and rescue boats.	Exam	Describe features and operation of equipment.	70% minimum score on written exam
	Organize and conduct drills for fire, abandon ship, and man overboard.	On board ship	Conduct drills in firefighting, abandon ship, and man overboard.	Drills are held regularly, with advance preparation, evaluation, and remediation as necessary.
	Respond to alarms during drills for fire, abandon ship, and man overboard.	On board ship	Respond to alarms during drills for fire, abandon ship, and man overboard.	Reports to duty station promptly and responds appropriately to the situation.
	Use emergency signaling and communications equipment.	On board ship or Laboratory	Inspect and operate in simulated fashion pyrotechnic distress signals, EPIRB's and SART's.	Actions are taken in accordance with manufacturer's instructions and specifications.
	Know sea survival techniques	Exam	List techniques for survival at sea.	70% minimum score on written exam

Competence: Apply medical first aid on board ship

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
Practical application of medical guides and advice by radio	Know procedures for using medical guides and sources of medical advice by radio.	Exam	List procedures.	70% minimum score on written exam

TABLE A-II/1 ASSESSMENT CRITERIA
MATE – OSV ON NEAR COASTAL WATERS (INTERNATIONAL)

Function: Controlling the operations of the ship and care for persons on board

Competence: Monitor compliance with legislative requirements

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
National and international requirements affecting the operation and safety of the vessel	Know the following: <ul style="list-style-type: none"> – relevant IMO conventions concerning safety of life at sea and pollution prevention – national laws and regulations – certificates required and their period validity – responsibilities under the load line convention – responsibilities under SOLAS – responsibilities under the International Convention of Pollution Prevention – requirements of the International Health Regulations – international instruments affecting the ship, passengers, crew, and cargo – methods and aids to prevent pollution – national legislation for implementing international agreements 	Exam	Describe the application of the relevant conventions, laws, and regulations to OSV's.	70% minimum score on written exam

TABLE A-II/1 ASSESSMENT CRITERIA MATE – OSV ON NEAR COASTAL WATERS (INTERNATIONAL)

Function: Controlling the operations of the ship and care for persons on board

Competence: Seamanship

KUP	Performance Objective	Condition of Assessment	Performance Measure	Performance Standard
Marlinspike seamanship	Know fiber line construction	Exam	Describe features of fiber line construction.	70% minimum score on written exam
	Know the use of natural fiber line.	Exam	Describe how to care for and maintain natural fiber line.	
	Know the use of synthetic fiber line.	Exam	Describe how to care for and maintain natural fiber line.	