

TABLE A-II-3 Record of Assessment

Specification of minimum standard of competence in _____

Name _____ Soc. Sec. No. _____ / _____ / _____

Column 1 STCW Competence	Column 2 Performance Objectives	Column 3 Performance Measures (Mariner knowledge or action including consequences of same) Demonstration or Oral/Written Exam	Column 4 Performance Standards (Criteria against which performance is measured)	Date Of Assessment	Assessor's Initials	T / P
Plan and conduct a coastal passage and determine position (pg. 58)	Ability to determine vessel's position by the use of: 1) Landmarks 2) Aids to navigation including lighthouses, beacons, and buoys 3) Dead reckoning, taking into account winds, tides, currents, and estimated speed.	Determine vessel's position by the following terrestrial means: 1) Plot a position by visual bearing and range from radar 2) Plot a position by crossing at least 2 visual bearings 3) Plot a position by crossing at least 2 radar ranges 4) Plot a position by crossing 2 RDF bearings 5) Plot DR positions taking into account set and drift.	On board assessment or a written exam with 90% passing. Accuracy of the position should be within 0.1 (one tenth) NM Crossing bearings should be at least 30 degrees and no more than 160 degrees.			
(pg. 59)	Thorough knowledge of and ability to use navigational charts and publications, such as sailing directions, tide and current tables, notice	Demonstrate the use of the following publications: 1) Sailing directions 2) Coast Pilot 3) Tide/Current Tables 4) Notice to Mariners 5) Radio navigation warnings 6) Ship's routing manuals	Written exam 90% passing.			

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	<p>to mariners</p> <p>Ability to operate safely and determine the vessel's position by use of all navigational aids and equipment commonly fitted on board the vessels concerned.</p> <p>Compasses</p>	<p align="center">(Master only)</p> <p>Know the proper operating procedures for:</p> <ol style="list-style-type: none"> 1) Decca/Loran 2) Radar/ARPA 3) Satellite navigation systems, including GPS. <p>Know the difference between true north and magnetic north.</p> <p>Know why determination of compass error is important for the safe navigation of the vessel.</p> <p>Explain the components of compass error (deviation and variation) and how they are applied.</p> <p>Explain what would cause a</p>	<p>Written exam 70% passing and completion of approved Radar/ARPA course.</p> <p>Written exam 70% passing.</p>			

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(pg. 60)	Automatic Pilot	vessel's deviation to change. Explain how the various parts of the compass affect the compass deviation. Explain why a vessel would need a compass adjuster swing the vessel. Identify methods of determining compass errors at sea and in port. Demonstrate ability to determine compass error at sea and in port. Demonstrate proper procedures to change from manual to automatic steering and back to manual, following the manufacturer's procedures and guidelines. Select and adjust the automatic steering controls most suitable for the prevailing weather, sea, and traffic conditions and the	On board assessment or simulator.			

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	Meteorology	anticipated maneuvers. Demonstrate the use of: 1) Anemometer 2) Barometer 3) Weather fax Analyze the information supplied by above instruments. Understand the weather associated with: 1) Frontal systems, high, low, or occluded 2) Tropical cyclones or hurricanes a. Locating storm center and maneuvering to avoid it. b. Dangerous and navigable semi- circles.	Written exam 70% passing			
Maintain a safe navigation	Watchkeeping	Pass a written exam on content, application and intent of the regulations, or	Written exam 90% passing, or—			

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watch. (pg. 61)		Identify vessels in restricted visibility by hearing audible sound signals. Determine risk of collision and steering and sailing rules situations of other vessels by observation of the aspect, bearing and sound signal, and maneuver the vessel to effect safe passage in accordance with all steering and sailing rules situations within the International Regulations for Preventing Collisions at Sea.	On simulator: 1) Identify 18 out of 20 vessels that have different light and shape configurations 2) Identify 9 out of 10 vessels with different sound signals 3) Identify 18 out of 20 different types of situations and provide a solution that maintains a safe distance from all vessels.			
Respond to emergencies (pg. 62)	Emergency procedures	Define action to be taken in: 1) Precautions for the protection and safety of passengers in emergency situations	Written exam 70% passing or practical demonstration by drills on board or on simulator.			

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	<p>Operation of</p> <p>Anchoring Procedures</p> <p>Mooring</p>	<p>of the propulsion system, and interactive forces (squat, bank suction, etc.) on safe maneuvering and handling.</p> <p>Understand the principles of small ship power plants as per manufacturer's recommended guidelines and instructions.</p> <p>Demonstrate proper procedures for anchoring, taking into account:</p> <ol style="list-style-type: none"> 1) Current 2) Depth of water 3) Bottom type 4) Location of hazards 5) Swing room 6) Identification of anchor dragging, and 7) Clearing fouled anchors. <p>Demonstrate proper mooring procedures taking into account:</p> <ol style="list-style-type: none"> 1) Vessel maneuvering characteristics 2) Limited number of available personnel 	<p style="text-align: center;">II</p> <p>Written exam 70% passing, or On board ship assessment, or simulator.</p>			

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Monitor the loading	Cargo handling	<p>3) Weather factors 4) Tide/current factors, and 5) Required mooring arrangements.</p> <p>Knowledge of stability and trim with regard to the safe loading and discharge of cargo.</p> <p>Familiarization with the code of safe practices for cargo stowage and securing.</p> <p>Use and familiarization with the IMDG code and the code of safe practice for solid bulk cargoes.</p>	Written exam 70% passing, or On board assessment.			
Ensure compliance (pg. 64)	Prevention of pollution	<p>Familiarization with:</p> <p>1) MARPOL requirements 2) Vessel's waste management program 3) Vessel's anti-pollution equipment 4) Vessel's pollution clean-up equipment.</p>	Written exam 70% passing, or On- board assessment.			

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Maintain seaworthiness	Vessel stability	<p>Understand:</p> <ol style="list-style-type: none"> 1) How to calculate stability and trim of a vessel 2) Righting moments 3) Equilibrium states 4) Metacentric height 5) Rolling periods 6) Beam/draft ratio 7) Free surface effect 8) Advantages/disadvantages of stiff vs. tender 9) Hogging and sagging 10) Effect of flooding on transverse stability and reserve buoyancy 11) Actions taken in the event of lost buoyancy. <p>Demonstrate the use of stability, trim, and stress tables and diagrams.</p> <p>Demonstrate a general knowledge of principal structural members of a vessel, their proper names and purpose.</p>	Written exam 70 % passing.			

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Prevention, control, and fighting fires. (pg. 65)	Fire prevention		Successful completion of an approved fire-fighting course.			
Operate life- saving appliances.	Lifesaving		Successful completion of and approved course in personal survival techniques and personal safety.			
Apply medical first-aid. (pg. 66)	Medical aid		Successful completion of an approved course in medical first- aid.			
Monitor compliance.	Basic working knowledge of IMO	Demonstrate knowledge of all certificates and documents required	Written exam 70% passing.			

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(pg. 66)	conventions of safety of life at sea and protection of the marine environment.	to be carried, including SOLAS, load lines, pollution and health regulations. This includes their validity period and required inspections.				

T/P Column – T designates that this competency will be evaluated with a written test question and is not evaluated on this form but the score will be marked on the last sheet of this form, P designates that this competency will be evaluated with a practical skills evolution.

