# **Assessment Plan**

	W Code: Mandatory m ion A-II/2 masters and more		Tal	ble A: Table A-II/2			•							
Appro Train Progr	ning Management (Function 1)	Level C	Course for Ma	nrine Deck Offi	cers	Ins	tructor:			Date Prepared:				
Reso Need	ources led					Assessor: Approved by:								
	Written Assessment								Practical A	Asse	ssment			
	Topics	No. of Test Items	Assessment Method	Assessment Period	Grading Scheme				Assessment	Task				Grading Scheme
1. \	se Introduction Voyage planning and navigation for all conditions	0 3	-			1.	Evaluate the planned route with due consideration to the	3.	Determine the most appropriate	4.	Apply the true course/directio n of own ship	5.	Apply the search and rescue	
2. F v F	Routeing in accordance with the General Provisions on Ships' Routeing	1					following, in a given scenario: • restricted waters; • meteorological		ship's position- fixing method to the prevailing		and frequently check magnetic and gyro compass		operation coordinatio n procedure	
v fe	Reporting in accordance with the General principles for Ship Reporting Systems and with VTS procedures	3		Written Exam and practical	Obtain at		conditions; • ice; • restricted visibility; • traffic separation schemes;		circumstances and conditions through the in a given scenario:		errors in the prevailing circumstances and conditions in a given		of IAMSAR in a given scenario.	
a	Position determination in all conditions	1	Multiple Choice	assessment	least 75%		• vessel traffic service (VTS) areas; and		<ul> <li>celestial observation;</li> </ul>		scenario.			
ç	Errors of the magnetic and gyro-compasses	3	Questions	administere d at the end of training period	written test	2.	<ul> <li>areas of extensive tidal effects.</li> <li>Apply the approved reports in accordance with the published procedures and criteria.</li> </ul>		<ul> <li>terrestrial observation; and</li> <li>electronic navigational aids</li> </ul>					
ç	Principles of magnetic and gyro compasses	1							Assessment C	riteri				
c c r	Systems under the control of the master gyro, and operation and care of the main types of gyro- compass	1				•	The equipment, charts and nautical publications required for the voyage are	•	The primary method chosen for fixing the ship's	•	The method and frequency of checks for errors of	•	The plan for coordinatin g search	Perform ance of required tasks based

		on the resulting position are property		
		properly applied		

		Written	Assessment					Practical Assessment			
Topics	No. of Test Items	Assessment Method	Assessment Period	Grading Scheme		Assessment Task					
<ol> <li>System errors and operational aspects of navigational systems</li> <li>Divergence along in the system</li> </ol>	1	-			6.	Analyze the operational aspects of the Radar/ARPA and other navigational systems in respect to the information	9.	Create and maintain the following in accordance with the established procedure: • system	11.	Forecast likely weather conditions for a determined	
12. Blind pilotage planning	2					obtained taking into		configuration and		period based	
<ol> <li>Navigational information derived from all sources</li> <li>The interrelationship and optimum use of all navigational data available for conducting navigation</li> </ol>	2		Exam and practical assessment are	Obtain at least 75% mark from written test		account the limitation of equipment and prevailing circumstances and conditions in a given scenario and Analyze possible system errors that might occur while		<ul> <li>backup files;</li> <li>log files; and</li> <li>route plan files.</li> <li>and Use ECDIS log- book and track history functions for inspection of system functions, alarm settings and user responses.</li> <li>10. Perform the ECDIS playback functionality for passage review, route plan and review of system functions.</li> </ul>	12.	on all available information. Validate the calculated tidal condition of a	
<ul> <li>15. Management of operational procedures, system files and data</li> <li>Procurement, licensing and updating of chart data and system software</li> </ul>	1	Multiple			7.	using the Radar/ARPA and other navigational systems, and measures to correct them in accordance with the operations manual in a given scenario. 7. Perform the blind pilotage safely in accordance with established	10		13.	secondary port with the use of tide tables in a given scenario. Use the	
System and     information update	1	Questions	administered at the end of							appropriate nautical publications	
<ul> <li>Creation and maintenance of system configuration and backup files</li> <li>Creation and maintenance log files</li> <li>Creation and maintenance route plan files</li> <li>Using ECDIS log- book and track history functions for inspection of system functions, alarm settings and user responses</li> </ul>	2		training period			watchkeeping procedures in a given scenario. Perform the safe navigation to avoid a close encounter or collision with another vessel in accordance with the International Regulations for Preventing Collisions at Sea, 1972, as amended, and Use all navigational data derived from navigational equipment for conducting safe				on tides and currents when passing through ocean routes in a given scenario.	

			navigation in accordance with the established watchkeeping procedures in a given scenario.					
16. ECDIS playback	2		A	sse	ssment Criteria			
17. Synoptic chart and forecast area weather	1	•	Information obtained from navigation equipment and	•	Operational procedures for using ECDIS are	•	The likely weather	Performance of required
<ol> <li>Characteristics of various weather systems</li> </ol>	1		systems is correctly interpreted and analysed,		established, applied and monitored		conditions predicted for a	tasks based on
19. Ocean current systems	1		taking into account the	•	Actions taken to		determined	Assessment
20. Tidal conditions		•	limitations of the equipment and prevailing circumstances and conditions Action taken to avoid a close encounter or collision with another vessel is in accordance with the International Regulations for		minimize risk to safety of navigation	•	period are based on all available information Actions taken to maintain safety of navigation minimize any	Criteria using a Checklist
21. Nautical publications on tides and currents	2		Preventing Collisions at Sea, 1972, as amended				risk to safety of the ship Reasons for intended action are backed by statistical data and observations of the actual weather conditions	

		Written	Assessment	<u> </u>	Practical Assessment					
Topics	No. of Test Items	Assessment Method	Assessment Period	Grading Scheme	Assessment Task	Grading Scheme				
22. Manoeuvring and handling a ship in all conditions 22.1 Approaching pilot stations and embarking or disembarking pilots	5				<ol> <li>Manoeuvre the ship to embark and disembark pilots in various conditions of loading (loaded and ballast) and weather in accordance with the established procedures in a given scenario.</li> <li>Manoeuvre the ship in rivers, estuaries and restricted water in various conditions of loading (loaded and ballast) and weather in accordance with the established procedures in a given scenario.</li> </ol>					
22.2 Handling ship in rivers, estuaries and restricted water	4				<ol> <li>Manoeuvre the ship using constant-rate-of-turn techniques under various conditions of loading (loaded and ballast) and weather in a given scenario.</li> <li>Manoeuvre the ship in shallow water including the reduction in under-keel</li> </ol>					
22.3 Application of constant-rate-of-turn techniques	3				<ul><li>clearance caused by squat, rolling and pitching under various conditions of loading and weather in a given scenario.</li><li>18. Manoeuvre the ship when passing close to other ships and nearby banks,</li></ul>					
22.4 In shallow water and under-keel clearance	3						Written Exam and		<ul> <li>considering canal effect, in accordance with the established procedures in a given scenario.</li> <li>19. Perform the berthing and unberthing of the ship, with and without tugs, under various conditions of loading (loaded and ballast) and weather.</li> <li>20. Perform the ship handling as per ship's manoeuvring and engine characteristics</li> </ul>	
22.5 Interaction between passing ships and between own ship and nearby banks (canal effect)	3	Multiple Choice Questions	practical assessment are administered at the end of	Obtain at least 75% mark from written test	accordance with the established procedures.					
22.6 Berthing and unberthing in all conditions	5	-	training period		<ol> <li>Perform the ship anchoring in accordance with the established procedures in a given scenario.</li> <li>Perform the actions to be taken when dragging anchor in accordance with the</li> </ol>					
22.7 Ship and tug interaction 22.8 Propulsion and	1				<ul><li>established procedures in a given scenario.</li><li>24. Manoeuvre the ship when approaching a shipyard for dry-docking with and without damage in accordance with the established procedures.manage and</li></ul>					
manoeuvring systems					<ul> <li>handle the ship in heavy weather, including assisting a ship or aircraft in distress, towing operations, lessening drift and use of oil in accordance with established procedure.</li> <li>25. Perform the ship handling with respect to manoeuvring and propulsion characteristics of own ship in accordance with IMO manoeuvring standards as posted in the wheelhouse (manoeuvring poster), with special reference to stopping distances, turning circles at various draughts and speeds.</li> <li>26. Perform the safe manoeuvres in and near, Traffic Separation Schemes (TSS) in accordance with Rule 10 of COLREGs, and Vessel Traffic Service (VTS) areas under the List of Radio Signals.</li> </ul>					

22.9 Anchoring		Assessment Criteria	
22.10 Dragging anchor	4	<ul> <li>All decisions concerning berthing and anchoring are based on a proper assessment of the ship's manoeuvring and engine characteristics and the forces to be expected while berthed alongside or lying at anchor</li> </ul>	ance require
22.11 Dry-docking	3	<ul> <li>While under way, a full assessment is made of possible effects of shallow and restricte waters, ice, banks, tidal conditions, passing ships and own ship's bow and stern wave</li> </ul>	
22.12 Management and handling of ships in heavy weather	4	that the ship can be safely manoeuvred under various conditions of loading and weath	
22.13 Precautions in manoeuvring to launch rescue boats or survival craft in bad weather	1		Criter using Check t
22.14 Methods of taking on board survivors from rescue boats and survival craft	1		
22.15 Manoeuvring and propulsion characteristics of common types of ships	3		
22.16 Navigating at reduced speed	1		
22.17 Navigating in or near ice or in conditions of ice accumulation on board	1		
22.18 Manoeuvring in and near, traffic separation schemes and in vessel traffic service (VTS) areas	3		

		Written	Assessment		Practical Assessment													
Topics	No. of Test Items	Assessment Method	Assessment Period	Grading Scheme	Assessment Task	Grading Scheme												
<ul> <li>23. Precautions when beaching a ship</li> <li>24. Action to be taken if grounding is imminent, and after grounding</li> <li>25. Refloating a grounded ship with or without assistance</li> <li>26. Action to be taken if collision is imminent and following a collision or impairment of the watertight integrity of the hull by any cause</li> </ul>	5 4 2				<ol> <li>Evaluate the appropriate actions when beaching a ship in accordance with the established procedures in a given scenario.</li> <li>Assess the extent of damage when a ship is grounded and decide appropriate measures to ensure safety and minimize the effects of damage of the ship and ensure safety of person on board in accordance with the contingency plan in a given scenario and Evaluate the appropriate actions/measures to prevent further damage to the ship, and subsequently refloat it using her own power (self-propelled) or with the assistance of tugboat in a given scenario.</li> <li>Apply the action to be taken if collision is imminent and after the collision or impairment of the watertight integrity of the hull and to mitigate risks to personnel, vessel stability and the marine environment in accordance with the contingency plan in a given scenario.</li> </ol>													
<ul><li>27. Assessment of damage control</li><li>28. Emergency steering</li></ul>	1	-	Written Exam and practical	Obtain at														
29. Emergency towing arrangements and towing procedure	1	Multiple Choice Questions	assessment are administered at the end of	least 75% mark from written test														
30. Operating principles of marine power plants	0		training period		Assessment Criteria													
<ul> <li>31. Ships' auxiliary machinery</li> <li>32. General knowledge of marine engineering terms</li> </ul> Total Number of Test Items	0																<ul> <li>The type and scale of any problem is promptly identified and decisions and actions minimize the effects of any malfunction of the ship's systems</li> <li>Communications are effective and comply with established procedures</li> <li>Decisions and actions maximize safety of persons on board</li> </ul>	Perform ance of required tasks based on Assess ment Criteria using a

Note: The MTI has the prerogative to cluster related tasks into one scenario provided that it addresses all expected learning outcomes in the achievement of the competence and can be assessed in accordance with the specified assessment criteria.