

# Record of Assessment

for

Officer in Charge of a Navigational Watch on Vessels of  
500 GT or More

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*Print Name of Candidate*

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*Candidate's Signature*

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*Candidate's Mariner Reference No.*

**RECORD OF ASSESSMENT  
OFFICER IN CHARGE OF A NAVIGATIONAL WATCH ON VESSELS OF 500 GT OR MORE**

**NOTE TO QUALIFIED ASSESSOR(S):** In performing your function as a qualified assessor, you may use your initials only to indicate you have personally witnessed the demonstration of skill or ability by the person being assessed. The Assessment Guidelines in Enclosure (2) will provide satisfactory evidence of meeting the standard of competence specified in Section A-II/1 of the STCW Code. The use of these Assessment Guidelines is not mandatory and an alternative means of having achieved the standards of competence in the STCW Code will be considered. In accordance with 46 CFR 11.301(a)(1)(i), alternative Assessment Guidelines must be approved by the National Maritime Center before use.

STCW Competence	Knowledge, Understanding, and Proficiency	Task No.	Task Name	Assessor's Initials	Date
Plan and conduct a passage and determine position	Ability to use celestial bodies to determine the ship's position	1.1.A <i>Note 1</i>	Adjust a sextant		
		1.1.B <i>Note 1</i>	Measure the altitude of the sun		
		1.1.C <i>Note 1</i>	Measure the altitude of at least 3 stars		
		1.1.D <i>Note 1</i>	Measure the altitude of the sun at meridian passage (LAN)		
		1.1.E <i>Note 1</i>	Celestial running fix		
		1.1.F <i>Note 1</i>	Plot star fix		

**Notes:**

- Note 1* The assessment is not required for an endorsement that will be limited to near coastal waters.
- ARPA* The assessment is not required for mariners serving exclusively on vessels not fitted with an Automatic Radar Plotting Aid (ARPA); a limitation will be added to the OICNW endorsement indicating that it is not valid on vessels equipped with ARPA.
- ECDIS* The assessment is not required for mariners serving exclusively on vessels not fitted with an Electronic Chart Display Information System (ECDIS); a limitation will be added to the OICNW endorsement indicating that it is not valid on vessels equipped with ECDIS after December 31, 2016.
- Course* The assessment is demonstrated by successful completion of an appropriate approved or accepted course. The mariner's course completion certificate will be sufficient documentation of completion of the assessment.

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Plan and conduct a passage and determine position	<i>Terrestrial and coastal navigation</i> Ability to determine the ship's position by use of landmarks; aids to navigation; dead reckoning	1.2.A	Position fix by two bearings		
		1.2.B	Plot DR position		
		1.2.C	Determine the course to steer		
	Thorough knowledge of and ability to use nautical charts and publications	1.3.A	Correction of charts and publications		
		1.3.B	Chart selection		
		1.3.C	Route planning		
	Ability to determine the ship's position by use of electronic navigational aids	1.4.A	Position fix by two ranges		
		1.4.B	Position fix by tangents to identified objects		
		1.4.C	Position fix by GPS		
		1.4.D	Use of GPS position save function		
	Ability to operate the equipment and apply the information correctly	1.5.A	Use of echo sounder		
	Knowledge of the principles of magnetic and gyro-compasses	1.6.A	Magnetic variation		
		1.6.B	Correct for true heading		
		1.6.C	Compass deviation		
		1.6.D	Magnetic compass correction		

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Plan and conduct a passage and determine position	Ability to determine errors of the magnetic and gyro-compasses, using celestial and terrestrial means, and to allow for such errors	1.7.A	Determine the gyro-compass error by bearing of range		
		1.7.B	Determine magnetic compass error		
		1.7.C	Determine magnetic compass deviation		
		1.7.D	Determine course to steer by magnetic compass		
		1.7.E	Position fix by magnetic compass bearings		
		1.7.F	Azimuth of the sun		
	Knowledge of steering control systems, operational procedures and change-over from manual to automatic control and vice versa. Adjustment of controls for optimum performance	1.8.A	Steering gear test		
		1.8.B	Set weather controls		
	Ability to use and interpret information obtained from shipborne meteorological instruments	1.9.A	Read barometric pressure		
		1.9.B	Determine true wind speed and direction		

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Plan and conduct a passage and determine position	Knowledge of the characteristics of the various weather systems, reporting procedures and recording systems	1.10.A	Characteristics of a cold front	COURSE	
		1.10.B	Characteristics of a warm front	COURSE	
		1.10.C	Characteristics of an occluded front	COURSE	
		1.10.D	Characteristics of a low pressure area	COURSE	
		1.10.E	Characteristics of a high pressure area	COURSE	
		1.10.F	Characteristics and expected locations of weather systems	COURSE	
		1.10.G	Determine expected weather conditions		
Maintain a safe navigational watch	Thorough knowledge of the content, application and intent of the International Regulations for Preventing Collisions at Sea, 1972	2.1.A	Identify light configurations		
		2.1.B	Identify day shapes		
		2.1.C	Identify sound signals		
		2.1.D	Determine risk of collision		
		2.1.E	Maneuver to avoid risk of collision - crossing		
		2.1.F	Maneuver to avoid risk of collision - meeting		
		2.1.G	Maneuver to avoid risk of collision - overtaking		

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Maintain a safe navigational watch	Thorough knowledge of the Principles to be observed in keeping a navigational watch	2.2.A	Watch relief		
		2.2.B	Keep a safe navigation watch		
		2.2.C	Notify Master when appropriate		
		2.2.D	Keep a safe anchor watch		
		2.2.E	Turn over a watch		
	The use of routing in accordance with the General Provisions on Ships' Routing	2.3.A	Voyage Planning - Appraisal		
		2.3.B	Voyage Planning - Planning		
		2.3.C	Execute a voyage plan		
	The use of information from navigational equipment for maintaining a safe navigational watch	2.4.A	Situational awareness		
	Knowledge of blind pilotage techniques	2.5.A	Navigate in restricted visibility		
	The use of reporting in accordance with the General Principles for Ship Reporting Systems and with VTS procedures	2.6.A	Vessel Traffic System (VTS)		

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Maintain a safe navigational watch	Knowledge of bridge resource management principles	2.7.A	Recognition of watch condition		
		2.7.B	BRM Condition III – Collision Avoidance		
		2.7.C	BRM Condition III – Navigation		
		2.7.D	BRM Condition II or III – Error trapping		
		2.7.E	BRM Condition II or III – Prioritization		
		2.7.F	BRM Condition II – Navigation and collision avoidance		
		2.7.G	BRM Condition III – Establish a bridge team		
Use of radar and ARPA to maintain safety of navigation	Knowledge of the fundamentals of radar and automatic radar plotting aids (ARPA)	3.1.A	Radar fundamentals	COURSE	
	Ability to operate and to interpret and analyze information obtained from radar, including setting up and maintaining displays	3.2.A	Set up and maintain radar display		
		3.2.B	Switch display modes		
	Ability to operate and to interpret and analyze information obtained from radar, including detection of misrepresentation of information, false echoes, sea return, etc., racons and SARTs	3.3.A	Identify false echoes, sea return, racon and SART		

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Use of radar and ARPA to maintain safety of navigation	Ability to operate and to interpret and analyze information obtained from radar, including: range and bearing; course and speed of other ships; time and distance of closest approach of crossing, meeting overtaking ships	3.4.A	Determine range and bearing		
		3.4.B	Determine risk of collision		
		3.4.C	Determine DRM, SRM, CPA, and TCPA		
		3.4.D	Detect speed and course change of other ships		
		3.4.E	Change course to control target DRM		
		3.4.F	Change speed to control target DRM		
		3.4.G	Determine true course and speed of target vessels		
		3.4.H	Parallel indexing		
		Principal types of ARPA, their display characteristics, performance standards and the dangers of over-reliance on ARPA	3.5.A <i>ARPA</i>	Set up and maintain an ARPA display	COURSE

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Use of radar and ARPA to maintain safety of navigation	Ability to operate and to interpret and analyze information obtained from ARPA, including true and relative vectors, graphic representation of target information and danger areas	3.6.A <i>ARPA</i>	Manual target acquisition	COURSE	
		3.6.B <i>ARPA</i>	Establish an exclusion area	COURSE	
		3.6.C <i>ARPA</i>	Set vector characteristics	COURSE	
		3.6.D <i>ARPA</i>	Designate targets	COURSE	
		3.6.E <i>ARPA</i>	Cancel targets	COURSE	
		3.6.F <i>ARPA</i>	Target history	COURSE	
		3.6.G <i>ARPA</i>	Establish CPA and TCPA	COURSE	
		3.6.H <i>ARPA</i>	Establish alarm area	COURSE	
		3.6.I <i>ARPA</i>	Trial maneuver	COURSE	
		3.6.J <i>ARPA</i>	Switch stabilization modes	COURSE	
		3.6.K <i>ARPA</i>	Determine range and bearing to an object	COURSE	
		3.6.L <i>ARPA</i>	Navigation lines	COURSE	
		3.6.M <i>ARPA</i>	Determine set and drift	COURSE	
Use of ECDIS to maintain the safety of navigation	Knowledge of the capability and limitations of ECDIS	4.1.A <i>ECDIS</i>	ECDIS fundamentals	COURSE	
	Proficiency in operation, interpretation, and analysis of information from ECDIS	4.2.A <i>ECDIS</i>	ECDIS operation	COURSE	

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Respond to emergencies	Precautions for the protection and safety of passengers in emergency situations	5.1.A	Passenger safety		
		5.2.A	Action following a collision or a grounding		
		5.3.A	Rescuing persons, assisting ship in distress, emergencies in port		
Respond to a distress signal at sea	Knowledge of the contents of the International Aeronautical and Maritime Search and Rescue (IAMSAR) Manual	6.1.A	IAMSAR Manual	COURSE	
Use the IMO Standard Marine Communication Phrases and use English in written and oral form	Adequate knowledge of English language... including ability to use and understand IMO Standard Marine Communication Phrases (SMCP)	7.1.A	Standard Marine Communication Phrases (SMCP)	COURSE	
Transmit and receive information by visual signaling	Ability to use the International Code of Signals	8.1.A	International Code of Signals	COURSE	
	Ability to transmit and receive by Morse light	8.2.A	Receive information by Morse light	COURSE	
Maneuver the ship	Knowledge of the effects of deadweight, draught, trim, speed and under keel clearance on turning circles and stopping distances	9.1.A	Turning circles and stopping distances		
	Knowledge of the effects of wind and current on ship handling	9.2.A	Course change of more than 45°		
		9.2.B	Emergency stop		
	Knowledge of maneuvers and procedures for the rescue of person overboard	9.3.A	Maneuver for a man overboard		

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Maneuver the ship	Knowledge of squat, shallow water and similar effects	9.4.A	Knowledge of shallow water effects	COURSE	
	Knowledge of proper procedures for anchoring and mooring	9.5.A	Knowledge of anchoring and mooring		
Monitor the loading, stowage, securing, care during the voyage and the unloading of cargoes	Knowledge of the effect of cargo, including heavy lifts	10.1.A	Effect of cargo on seaworthiness and stability	COURSE	
	Knowledge of safe handling, stowage and securing of cargoes	10.2.A	Safe handling, stowage and securing of cargoes	COURSE	
	Ability to establish and maintain effective communications during loading and unloading	10.3.A	Effective communications during loading and unloading	COURSE	
Inspect and report defects and damage to cargo spaces, hatch covers and ballast tanks	Knowledge and ability to explain where to look for damage and defects most commonly encountered	11.1.A	Inspection for damage and defects	COURSE	
	Ability to state which parts of the ship shall be inspected each time in order to cover all parts within a given period of time	11.2.A	Inspection scheduling and frequency	COURSE	
	Identify those elements of the ship structure which are critical to the safety of the ship	11.3.A	Inspect and report defects and damage to cargo spaces, hatch covers and ballast tanks	COURSE	
	State the causes of corrosion in cargo spaces and ballast tanks and how corrosion can be identified and prevented	11.4.A	Causes of corrosion in cargo spaces and ballast tanks	COURSE	
	Knowledge of procedures on how the inspections shall be carried out	11.5.A	Inspection procedures	COURSE	

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Inspect and report defects and damage to cargo spaces, hatch covers and ballast tanks	Ability to explain how to ensure reliable detection of defects and damages	11.6.A	Detection of defects and damages	COURSE	
	Understanding of the purpose of the "enhanced survey programme"	11.7.A	Understanding of the "enhanced survey programme"	COURSE	
Ensure compliance with pollution- prevention requirements	Knowledge of the precautions to be taken to prevent pollution of the marine environment	12.1.A	Precautions to prevent pollution of the marine environment		
	Anti-pollution procedures and all associated equipment	12.2.A	Anti-pollution procedures and associated equipment		
	Importance of proactive measures to protect the marine environment	12.3.A	Importance of proactive measures		
Maintain seaworthiness of the ship	Working knowledge and application of stability, trim and stress tables, diagrams and stress calculating equipment	13.1.A	Application of stability, trim and stress tables and diagrams	COURSE	
	Understanding of fundamental actions to be taken in the event of partial loss of intact buoyancy	13.2.A	Actions in event of partial loss of intact buoyancy	COURSE	
	Understanding of the fundamentals of watertight integrity	13.3.A	Fundamentals of watertight integrity	COURSE	
	General knowledge of the principal structural members of a ship and the proper names for the various parts	13.4.A	Ship structure	COURSE	

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Prevent, control and fight fires on board	Ability to organize fire drills	14.1.A	Ability to organize fire drills	COURSE	
	Knowledge of classes and chemistry of fire	14.2.A	Knowledge of classes and chemistry of fire	COURSE	
	Knowledge of fire-fighting systems	14.3.A	Knowledge of fire-fighting systems	COURSE	
	Knowledge of action to be taken in the event of fire	14.4.A	Knowledge of actions in event of fire	COURSE	
Operate life-saving appliances	Ability to organize abandon ship drills and knowledge of the operation of survival craft	15.1.A	Life-saving	COURSE	
Apply medical first aid on board ship	Practical application of medical guides and advice by radio	16.1.A	Medical First Aid	COURSE	
Monitor compliance with legislative requirements	Basic working knowledge of the relevant IMO conventions concerning safety of life at sea, security and protection of the marine environment	17.1.A	Knowledge of international conventions		
Application of leadership and team working skills	Working knowledge of shipboard personnel management and training	18.1.A	Duties and responsibilities of shipboard personnel		
	A knowledge of related international maritime conventions and recommendations, and national legislation	18.2.A	Maritime conventions and national legislation		
	Ability to apply task and workload management	18.3.A	Task and workload management		
	Knowledge and ability to apply effective resource management	18.4.A	Resource management		
	Knowledge and ability to apply decision-making techniques	18.5.A	Decision making techniques		

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Contribute to the safety of personnel and ship	Knowledge of personal survival techniques	19.1.A	Personal survival techniques	BASIC TRAINING	
	Knowledge of fire prevention and ability to fight and extinguish fires	19.2.A	Fire prevention and firefighting	BASIC TRAINING	
	Knowledge of elementary first aid	19.3.A	Elementary first aid	BASIC TRAINING	
	Knowledge of personal safety and social responsibilities	19.4.A	Personal safety and social responsibilities	BASIC TRAINING	

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**ASSESSOR AND VESSEL INFORMATION**

Qualified Assessors witnessing the successful demonstrations noted in this record should provide the information below relative to their service with the candidate, including their Mariner Reference Number.

Vessel Name	Gross Tonnage (Note GRT or GT)	Dates of Service		Assessor Name	Assessor Signature	Sample Initials of Assessor	Assessor Mariner Ref. No.	Assessor Shipboard Position
		From	To					
M/V Onderbroek	8,000 GRT	04/01/2012	07/07/2012	I. J. Reilly	<i>I. J. Reilly</i>	<i>IJR</i>	1234567	Master

