

1. Course Title: Efficient Deck Hand

2. Scope With reference to convention Imo Model Course:

This course is intended for Deck Ratings who have previously served on board ships to train and equip them with practical skills and competence in general operations consistent with their duties on modern vessels.

3. Objective:

1. This course will provide sufficient theoretical and practical knowledge for a person working as a Deck Rating to perform his/her duties on the deck on various types of merchant vessels in a safe and efficient manner.
2. On successful completion of this Course, the participant should be able to:
 - a. Understand the basic knowledge and skills required for deck and bridge operations and maintenance.
 - b. Follow efficient and safe working practices during discharging their duties of deck and bridge.

4. Course Outline Shore base & On board Training:

Subject Area			Hours	
			Lectures	Practical
1.	Introduction			
	1.1	Introduction	0.75	
	1.2	Common nautical terms	0.75	
			1.5	
2.	General Ship Knowledge			
	2.1	Types of ships	1.5	
	2.2	Functions of various parts and equipment	3.0	
			4.5	
3.	Rope and Wire Work			
	3.1	Properties and use of ropes and wires	0.75	0.75
	3.2	Gantlines and safety harness	0.75	0.75
	3.3	Safe rigging practices	0.75	3.0
			2.25	4.5
4.	Mooring and Anchor Operation			
	4.1	Means of access and pilot ladder	0.75	
	4.2	Types of equipment	0.75	
	4.3	Types of Mooring	0.75	1.5
			2.25	1.5
5.	Deck Operations			
	5.1	Hatch cover operations	0.75	0.75
	5.2	Derricks and cranes	0.75	0.75
			1.5	1.5
6.	Watchkeeping and Bridge Operations			
	6.1	Lookouts	1.5	
	6.2	Watchkeeping	2.25	
	6.3	Bridge equipment	0.75	0.75

			4.5	0.75
7.	General Safety and Accident Prevention			
	7.1	Safe Working practices	2.25	
	7.2	Enclosed space	2.25	
	7.3	Heavy weather	1.5	
	7.4	Communication		0.75
			6.0	0.75
8.	Assessments			
	8.1	Theory	1.5	
	8.2	Practical		3.0
			1.5	3.0
	Sub Totals		24.0	12.0
	Total		36.00	

5. Competence Standard/Course Syllabus Checked with up-to-date STCW/IMO Model Course:

Learning Object		
		Hours
1	Introduction	1.5
1.1	Introduction	0.25
	1. Understands the importance of this course 2. Knows the outline of the course	
1.2	Common nautical terms	1.25
	1. Writes the definitions of common nautical terms e.g. deck, bridge, hold, hatch, tank, peaks, DB tanks, bilge, anchors, windlass, winch, derrick etc. 2. Knows the application and relevance of these terms to ship	
2	General Ship Knowledge	4.5
2.1	Types of Ships	1.5
	1. Defines <ul style="list-style-type: none"> - Passenger ships - Cargo ships and its types 2. Understands the operational mode of <ul style="list-style-type: none"> - Tankers - Solid bulk carriers - Roll-on / Roll off ships - Container ships - General cargo ships 	
2.2	Functions of various parts and equipment	3.0
	1. Knows the <ul style="list-style-type: none"> - Terms and definition related to ship's form - Names and functions of parts of ship - Various section of a vessel and use of compartments, tanks, store etc - Ship's design for specialized trade and carriage of cargo 2. Understands the use of <ul style="list-style-type: none"> - Pumps and Piping systems - Conveyor belt, extractors, bucket - Horizontal movement, trucks, forklift and trailers - Derricks and cranes 	

3	Rope and Wire Work	6.75
3.1	Properties and use of ropes and wires	1.5
	<ol style="list-style-type: none"> 1. Identifies various types of ropes and wires 2. Recognizes wire, natural and synthetic ropes 3. Knows the properties and use of natural fiber, synthetic, fiber and wire ropes 4. Understands the construction, safe working load, markings and measurement on ropes and wires 5. States the use of common knots, hitches, whippings and splicing 6. Knows proper storage of ropes and wires 7. Describes method of uncoiling, flaking and kinking out new coils of rope/wire 8. States proper method of rope maintenance and wire lubrication 	
Learning Object		
		Hours
3.2	Gantlines and safety harnesses	1.5
	<ol style="list-style-type: none"> 1. Understands proper use of gantlines, lizards and safety harnesses 2. Knows precautions when working aloof and over side 3. Describes the use and inspection of slings and strops, snooters and legs 	
3.3	Safe Rigging Practice	3.75
	Demonstrates ability to <ol style="list-style-type: none"> 1. Rig stages and bosun's chair 2. Sling machinery parts, use of tackles, purchases and chain blocks 	
4	Mooring and Anchor Operation	3.75
4.1	Means of access and pilot ladders	0.75
	Has knowledge of <ol style="list-style-type: none"> 1. Inspection, rigging and maintenance of pilot ladders and pilot hoists 2. Inspection, rigging and maintenance of gangways, accommodation ladders 3. Safety nets, side rails, stanchions, securing and portable ladders 	
4.2	Types of equipment	0.75
	<ol style="list-style-type: none"> 1. Identifies various types of mooring and anchoring equipment 2. Knows safe use of windlass and winches 	
4.3	Types of mooring	2.25
	<ol style="list-style-type: none"> 1. Describes different types of mooring as jetty, buoy and anchor mooring 2. Describes general mooring arrangement including use of stoppers and making fast to bitts 3. States anchoring terms, types and operations 4. Describes preparation, letting go, weighing anchor and accident prevention 	
5	Deck Operations	3.0
5.1	Hatch cover operations	1.5
	<ol style="list-style-type: none"> 1. Lists types of hatches and hatch covers 2. Understands method of securing and associated problems 3. Describes proper maintenance and checks 	
5.2	Derricks and cranes	1.5
	<ol style="list-style-type: none"> 1. Identifies different types of cargo gears 2. Lists accessories of cargo gears 3. Knows how to rig lifting equipment and setting up pipeline 	

	4. Describes operation and control of cargo gears 5. Knows safety precautions during handling of cargo gears	
6	Watch keeping and Bridge Operation	5.25
6.1	Lookouts	1.5
	1. Describes the duties of an AB as efficient member of the operational team 2. Knows appropriate responses as AB in various situations	
Learning Object		
		Hours
6.2	Watch keeping	2.25
	1. Recognizes different lights and shapes for navigational purpose 2. Knows meanings of various lights and shapes 3. Understands the importance of exhibit lights and shapes 4. Identifies Distress signals 5. Knows response to distress signals 6. Understands the need of assistance	
6.3	Bridge Equipment	1.5
	1. Identifies all bridge equipment 2. Knows function and use of all bridge equipment	
7	General Safety and Accident Prevention	6.75
7.1	Safe working practices	2.25
	1. Understands the principles and proper application of COSWP (Code of Safe Working Practice) for merchant seamen 2. Understands the use of safety signs and labels	
7.2	Enclosed space	2.25
	1. Stated the dangers and hazards associated with an enclosed space 2. Explains why an enclosed space is hazardous 3. Describes the precautions necessary prior entering an enclosed space	
7.3	Heavy weather	1.5
	1. Describes personal safety precautions in heavy weather 2. States the extra securing arrangement of ship's equipment and gear	
7.4	Communication	0.75
	1. Lists all shipboard communication equipment and states their use 2. Recognizes all different alarms onboard ships 3. Knows the importance of proper communication inside and outside ship 4. Understands distress, urgency and safety messages 5. Knows the use of survival craft radio transceiver	
8	Assessment	4.5
8.1	Theory	1.5
8.2	Practical	3.0

6. Entry Standard, Selection Criteria of Students:

A candidate must have SSC or higher certificate, with science background.

Age: More than 16 years.

Health: Good health condition to be certified by a qualified doctor

7. Intake limitation, with specific mention Instructor-student ratio:

For practical exercises student/teacher ratio should not exceed 10:1.

8. Qualification and experience of instructors:

Minimum qualification of any instructor must be class 3 Deck Certificate of Competency or equivalent with relevant sea experience as required by the Department of Shipping.

9. Qualification and experience of assessors: The practical exercises must be conducted and achievement of competency must be assessed under the supervision of a retained or serving fire fighter (or a person with equivalent qualifications and experience). The person conducting the practical training must be in possession of a recognized First Aid qualification. The ratio of staff to students for the practical exercises involving live fires or the use of breathing apparatus should not exceed 1:8.

10. Details Facilities & Equipment, materials and resources available for the training; Visual aids lecture Notes, Library facilities, Rental documents, Workshops Training Equipment: Navigational, Engineering, Communication, Seamanship etc:

To run this course, the Center provides normal classroom facilities with an overhead projector, VCR, Television and instructional video tapes and an equipped Boson's Workshop.

11. Conduct of Training with number of classroom lectures, practical work use of simulator, video etc:

Theoretical and practical instruction is given with appropriate arrangement and combination. Laboratory demonstration and guided hands-on followed by assigned group activities shall be employed to facilitate training & assessment.

12. Total duration of Training; Duration of Practical's:

Theory- 20.75 hrs.

Practical- 7.75 hrs.

Assessment- 3.0 hrs.

13. Assessment procedure, whether independent of instruction or continuous performance evaluation:

Short Answer, multiple choice, fill in the blanks and true/false type questions in a written test are used for assessment. Practical assessment includes direct observation, oral questioning, simulation and role-play.

14. Formats of certificate to be issued with correct reference to STCW and reference to approval and authorization by the Department of Shipping and contact point of the issuing institution for verifying authenticity:

To be in corporate.

15. Maintenance of records in Data-base for facilitation of checking including assessments:

NMI will maintain a data-base of all the students who have completed the course. The following records for each individual will be kept so as to ensure that the certificate is issued to a candidate who has met the requirements as laid down by the governing authority regarding issuance of a certificate on Bridge Resource Management.

- Application form
- Assessment papers after completion of course
- Attendance Sheet
- Attested Xerox copy of the issued certificates & licenses
- A registered data-base in hard copy and soft form

16. Internal Quality Standard System if any. Students Impressions, past results:

The institute maintains quality standard system ISO 9001:2008, Certified by DNV GL

17. Course notice served, course conducted as per course notice, progression report served:

Will be complied as per DOS Instruction.

18. Attendance of Students and Instructors:

Students and Instructor attendance sheet attached.



Annex- 03

NATIONAL MARITIME INSTITUTE

TRAINING RECORD

Instructor:

Venue:

Subject:

Brief description on training material:

Attendance:

Name & rank	Sign	Name & rank	Sign	Name & rank	Sign

Signature
Management Representative

Signature
Principal