

**1. Course Title:** Engineering Watch Rating (EWR)**2. Scope With reference to convention Imo Model Course:**

The scope of the course is the training requirement of Section A-VI/3 of the STCW Code.

**3. Objective:**

The objective of this course is to train the personnel to make them capable of demonstrating the required minimum standard of competence set out in Table A-VI/3 of STCW '78 as amended for seafarers who may be designated to control fire-fighting operations.

**4. Course Outline Shore base & On board Training:**

SL	KNOWLEDGE, UNDERSTANDING & PROFICIENCY	HOURS
1.	Carry out a watch routine appropriate to the duties of a rating forming part of an engine-room watch	21.0
2.	For keeping a boiler watch: Maintain the correct water levels and steam pressures	3.00
3.	Operate emergency equipment and apply emergency procedures	6.00
4.	Assessment	1.5
	<b>Total</b>	<b>31.5</b>

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

SL	KNOWLEDGE, UNDERSTANDING & PROFICIENCY	Class room Lecture /hrs
1	<b>Carry out a watch routine appropriate to the duties of a rating forming part of an engine-room watch</b>	<b>21</b>
	1.1 Terms used in machinery spaces and names of machinery and names of machinery and equipment	
	1.2 Engine-room watch keeping procedures	
	1.3 Safe working practices as related to engine-room operations	
	1.4 Basic environmental protection procedures	
	1.5 Use of appropriate internal communication system	
	1.6 Engine-room alarm systems and ability to distinguish between the various alarms, with special reference to fire-extinguishing gas alarms	
2	<b>For keeping a boiler watch: Maintain the correct water levels and steam pressures</b>	<b>3</b>
	2.1 Safe operation of boilers	
3	<b>Operate emergency equipment and apply emergency procedures</b>	<b>6</b>
	3.1 Knowledge of emergency duties	
	3.2 Escape routes from machinery spaces	
	3.3 Familiarity with the location and use of fire-fighting equipment in the machinery spaces	
4	<b>Assessment</b>	<b>1.5</b>
	<b>Total</b>	<b>31.5</b>

**6. Entry Standard, Selection Criteria of Students:**

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

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 4 Marine Engineer officer certificate of competency or equivalent with relevant sea experience.

**9. Qualification and experience of assessors:** Minimum qualification of any instructor must be Class 4 Marine Engineer officer certificate of competency or equivalent with relevant sea experience.

**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:**

Normal classroom facilities with an overhead projector must be available. VCR. Television and instructional Video Tapes are highly recommended. The demonstration room/laboratory will be required to contain the following items/models of items cross-sectioned for inspection or poster size drawings/photographs of the same so that the main components are visible:

- I. Diesel and Steam Engines.
- II. Boilers
- III. Reciprocation air compressors and their safety valves.
- IV. Various types of pumps.
- V. Plate and tubular heat exchanger
- VI. Valves: gate, Globe, butterfly, spring loaded, screw down and non-return type.

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

To be incorporated.

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

Total- 31.5 hrs.

Assessment- 1.5 hrs.

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

The training is organized so that, by demonstration, trainees are able to show that they meet the requirements of below mentioned column 2 of Table A-VI/3 in accordance with the methods for demonstrating competence shown in column 3 of that table and the criteria for evaluating competence in column 4, by short answer, multiple choice, fill in the blanks and true/false type questions written test and by practical assessment, direct observation, oral questioning, simulation in practical test.

In case of failure, the student will be readmitted to the next batch of student.

**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:**

Cert No: 2018.02.016.0002967

DoS Reg. No: 2018.02.016.0082200

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH



## ন্যাশনাল মেরিটাইম ইনসিটিউট NATIONAL MARITIME INSTITUTE

South Halishahar, P.O. Bandar, Chittagong-4100, Bangladesh.

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### Course Completion Certificate

#### RATING FORMING PART OF AN ENGINEERING WATCH

This is to certify that, Mr. MD. SHAHADAT HOSSAN Son of Mr. MD. ABDUL KADER, Date & Place of Birth 17-11-1990 & CHITTAGONG, C.D.C.No. T/31833 has successfully completed course on **RATING FORMING PART OF AN ENGINEERING WATCH** conducted from **07-01-2018** to **11-01-2018** at the National Maritime Institute, Chittagong, Bangladesh

**Issue Date: 11-01-2018 and Expiry Date 11-01-2023**

Has been found duly qualified and satisfied the condition in accordance with the provisions of Regulation III/4 of Annex to the international convention on standards of Training, certification and watch keeping for seafarers(STCW), 1978 as amended.



CERTIFIED  
TRAINING INSTITUTE

Signature of the Holder

Principal

to verify this certificate visit- [www.nmi.gov.bd](http://www.nmi.gov.bd)

**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:

Signature  
Management Representative

Signature  
Principal