

<h1 style="margin: 0;">MSS</h1> <h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
	<i>Date of 1st issue</i>	2015-05-13
	<i>Issued by</i>	MR
	<i>Approved by</i>	DGMS
	<i>Revised status</i>	01
	<i>Revised date</i>	2024.02.22



This Code has been drawn to incorporate the requirements of the Merchant Shipping (Standards of Training, Certification and WatchKeeping for Seafarers) Regulations, 2016, as amended

Issue No: 02

Revision No: 01

CONTROLLED COPY NO: 01

Document No: COP – 02

Issued by:

Approved by:

.....

.....

Management Representative

Director General of Merchant Shipping



MSS	<i>Code of Practice</i> <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

Chapter – III

Engine Department

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;"><i>Code of Practice</i></h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

Contents

- 1.0 Mandatory minimum requirements for certification of officers in charge of an engineering watch in a manned engine-room or as designated duty engineers in a periodically unmanned engine-room of ships powered by main propulsion machinery of 750kW or more.
- 2.0 Mandatory minimum requirements for certification of officers in charge of an engineering watch in a manned engine-room or as designated duty engineers in a periodically unmanned engine-room of ships powered by main propulsion machinery of less than 3,000kW engaged on Near-Coastal Voyages (NCV).
- 3.0 Mandatory minimum requirements for certification of chief engineer officers and second engineer officers on ships powered by main propulsion machinery of 3,000 kW propulsion power or more
- 4.0 Mandatory minimum requirements for certification of chief engineer officers and second engineer officers on ships powered by main propulsion machinery of between 750 kW and 3,000 kW propulsion power
- 5.0 Mandatory minimum requirements for certification of chief engineer officers and second engineer officers on ships powered by main propulsion machinery of less than 3,000 kW main propulsion power engaged on Near-Coastal Voyages (NCV).
- 6.0 Mandatory minimum requirements for certification of ratings forming part of a watch in a manned engine-room or designated to perform duties in a periodically unmanned engine-room
- 7.0 Mandatory minimum requirements for certification of ratings as able seafarer engine in a manned engine-room or designated to perform duties in a periodically unmanned engine-room
- 8.0 Mandatory minimum requirements for certification of electro-technical officers
- 9.0 Mandatory minimum requirements for certification of electro-technical rating

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

Section A-III/1

1.0 Mandatory minimum requirements for certification of officers in charge of an engineering watch in a manned engine-room or as designated duty engineers in a periodically unmanned engine-room of ships powered by main propulsion machinery of 750 kW or more.

- (1) Every candidate for certification shall;
- (a) fulfill the requirements of regulation 11 (1) of the Merchant Shipping (Standards of training, Certification and Watch keeping for Seafarers) Regulations 2016, as amended,
 - (b) provide the evidence of having achieved the required standard knowledge, understand and proficiency of the respective competence, demonstrate the competence and the criteria for evaluating competence stipulated in table A-III/1 of the STCW Code.

1.1. Eligibility criteria

- (a) Proof of identity and age¹;
- (b) Confirmation of the medical fitness in accordance with schedule II of the Merchant Shipping (Standards of training, Certification and Watch keeping for Seafarers), Regulations, 2016 as amended²;
- (c) Shall produce sea service testimonials relating to character, good conduct, sobriety, experience and ability on-board the ships along with the application. Such testimonials shall be under the signature of the Master and the Chief Engineer or authorised Company representative of the ship on which service has been performed; the documentary evidences of sea service should be produced in a format mentioned in Annex – B or a format consisting the details given in the given format in Annex-B;
- (d) In case of a candidate who has fulfilled sea service requirement of 36 months on ships of 750 kW or more, shall have completed an approved training record book (TRB) or a training record book acceptable to DGMS which encompasses the minimum required areas as of approved TRB.
- (e) Have successfully completed approved education, training, and assessment (An approved cadet training programme or an approved preparatory course for Officer in charge of an engineering watch on ships of 750 kW or more) including relevant Simulator based Training & assessment to use as a method for demonstrating competence.

¹National Identity Card or Pass passport or National Seafarer’s Identity Document alone with birth certificate can be accepted as proof of identity and age.

² Foreign students may obtain valid medical fitness certificates and eye sight test certificates by approved medical practitioners of the Sri Lankan administration

MSS	Code of Practice <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

(f) Produce documentary evidences of having successfully completion of the approved training in;

- i) Engineering cadet training programme or a preparatory course for Officer in charge of an engineering watch on ships of 750 kW or more,
- ii) Proficiency in basic Training (STCW Reg. VI/1) – Need to produce the Certificate of Proficiency in basic training issued by the MSS,
- iii) Proficiency in Survival Craft and Rescue Boats other than fast rescue boats (STCW Reg.VI/2 Para 1),
- iv) Proficiency in Fast Rescue Boats (if applicable) (STCW Reg. VI/2 Para 2),
- v) Proficiency in advanced Fire Fighting (STCW Reg.VI/3),
- vi) Proficiency in Medical First Aid (STCW Reg. VI/4 Para 1),
- vii) Proficiency in Ship Security Officer (STCW Reg.VI/5),
- viii) Maritime English at operational level (Relevant competence in STCW Sec. A-III/1),
- ix) The Certificate(s) of the Simulator Training courses if used as a method for demonstrating the competence in accordance with the STCW Sec. A-III/1.

1.2. Eligibility criteria for enroll into a preparatory course.

Letter of Eligibility (LOE) is required to obtain by a candidate who wish to follow a preparatory course (before enrolling to such a course) The said letter of eligibility is valid for a period of five years from the date of issue and further extensions will not be permitted without appropriate sea service.

- (a) Educational qualification as prescribe in 1.5 (d) below
- (b) Sea going service in accordance with 1.1 (c)(d) above
- (c) Confirmation of the medical fitness in accordance 1.1(b) above

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

1.3. Preparatory Course, examinations and assessments process

- (a) The application for a LOE/batch approval shall be made through an Approved Maritime Training Institute (AMTI) where the candidate is expecting to enroll to follow the relevant preparatory course. The AMTI shall ensure that the candidate is complying with the enrollment criteria as mentioned in the Code of Practice and forward the required documents to MSS.
- (b) Approved Maritime Training Institutes (AMTI) can either conduct final phase of the Approved engine Cadet Training Programme (section 1.4) and preparatory course for Engineering Officer in charge of watch on ships of 750 kW or more individually or both programmes combined to cater the eligible seafarers. The course content and the duration, to achieve the minimum standards of competence shall be as per the DGMS approved core syllabus and detailed syllabi.
- (c) The training programmes shall comply with the Reg. III/1, Sec. A-III/1 and guidance given in Sec. B-III/1 of the STCW Convention.
- (d) At the end of the approved training programme, AMTI's shall conduct an assessment before appearing for the examinations of the DGMS.
- (e) DGMS shall conduct examinations at the end of training programme to verify standards of competence as mentioned in STCW Table A-III/1, have been achieved.
- (f) Final assessment (written and oral Examinations) will be conducted by the DGMS for the subjects as mentioned in below Part 1 and 2 as per the scheduled examination calender for the year.
- (g) All examination papers with the answers scripts shall be prepared at the beginning of the year by the DGMS appointed Examiner/ moderator(s) and the appointed examiner is responsible for setting of question papers, moderation of question papers, preparation of model answers, moderation of model answers and releasing of results.
- (h) The answer scripts of the subjects listed in Part 1 below, will be scrutinized by the AMTIs and subjects listed in Part 2 will be scrutinized by the examiners appointed by the DGMS. The candidates of National Diploma in Technology (NDT) and National Diploma in Engineering Science (NDES) in Marine Engineering are exempted from the Part 1.
- (i) Seafarers who are holding a Certificate of Competency as an Officer in Charge of an Engineering watch on ships of main propulsion power between 750kW and 3,000 kW engaged on NCV and complying with the approved sea time requirement as per the regulation 11 (b) (ii) of the Merchant Shipping (Standards of training, Certification and Watch keeping for Seafarers), Regulations, 2016 as amended, are exempted from the subjects in the Part 1 except "Marine Engineering Drawing and Designing".

MSS	Code of Practice <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

- (j) A degree or higher educational qualification of a candidate in the Marine or Mechanical or Electrical, accepted by the UGC, may be considered to exempt from the subject(s) in the part 1.
- (k) Candidate shall have minimum of 85% of class room attendance to be eligible for the final examination. Refer examination procedure for further information.

Part 1

Subjects	Type of examination	Duration (hrs)	Pass marks
Mathematics	Written	03	50
Applied Mechanical Science	Written	03	50
Thermodynamics	Written	03	50
Electro Technology	Written	03	50
Marine Engineering Drawing and Designing	Written	03	50
Ship Construction/ Naval Architecture	Written	03	50
Maritime Law	Written	03	50

Part 02

Subjects	Type of examination	Duration (hrs)	Pass marks
Engineering Knowledge General	Written	03	50
Engineering Knowledge Motor	Written	03	50
Oral Examination	Oral	After evaluation of the Examiner	

- Note:** (a) (i) Candidate shall have three consecutive appearings for the written examination.
(ii) The examinations are conducted as per annual examination calendar.
(iii) Validity period shall be 5 years for subjects listed in Part I and Part II above
(iv) Above validity period would be effective from the date which the results are released.
(v) The Engineering Knowledge (General & Motor) written examination and oral examination must be passed within 3 years. The examination papers in Engineering Knowledge General

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;">Merchant Shipping Secretariat</p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

& Motor must be passed in a single attempt. If failure in one or both papers (General & Motor) of the 'Engineering knowledge' candidate shall be appeared in both of the papers.

- (b) Candidate shall have three consecutive appearing for the oral examination, at intervals of 14 days duration between each appearing if the former sitting is unsuccessful. The examiner may ask to submit an assignment prior to subsequent attempts.
- (c) The examiner shall decide whether the candidate to have further 03 months of approved sea going experience or 2 months of academic training before the next attempt if the candidate is unsuccessful in first three appearings in (a) (i) or (b) above.

1.4. Exemptions and limitations

Seafarers who have performed approved sea going service on ships of lesser kW- power than the requirement or service on special category ships may be issued with a Certificate of Competency with limitations appropriate to the sea service held, considering the special requirements of the trade subjected to computation of sea service in Reg. 19 of gazette notification 1987/19.

1.5. Engineering Cadet Training Program

1.5.1 Entry criteria

- (a) Shall not be less than 16 years of age at the enrollment into the Engineering cadet training programme.;
- (b) Proof of identity³ ;
- (c) Confirmation of the medical fitness in accordance schedule II of the Merchant Shipping (Standards of training, Certification and Watch keeping for Seafarers), Regulation 2016, as amended ;

(d) Educational qualifications

(1) Direct entry into the cadet training programme

- (i) A credit pass in English at the National GCE O/L examination and two passes in the National GCE A/L in the following streams or equivalent qualification (O/L & A/L) acceptable to the DGMS.

³ A birth certificate or a passport can be accepted as proof of identity

MSS	Code of Practice <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

- any stream or combination of subjects, but, one of which must be of mathematics or physics; or
- engineering technology; or
- science for technology; or

- (ii) A degree or higher educational qualification than Advance Level acceptable to DGMS, in a stream where candidate acquire mathematical knowledge to understand and follow mathematics provided in the syllabuses of the preparatory courses approved by the DGMS.

(2) Entry through foundation programme

- (i) have Six passes at GCE O/L examination or equivalent acceptable to the DGMS including credit passes in Mathematics, Science and English ;
- (ii) have followed an educational programme which leads to GCE A/L examination and at least appear for the same in Mathematics, Biology, IT, engineering technology, science for technology or any technological stream which develop candidate's mathematical skills to a level which require basic knowledge to understand and follow mathematics provided in the syllabuses of the preparatory courses approved by the DGMS; and
- (iii) Successfully completed an approved foundation course which is not less than 6 months in duration.

- (e) Director General of Merchant Shipping exempt the candidates who have successfully completed the NDT and NDES (in Marine Engineering) along with 12 months approved sea going service, exempted from the requirements specified in 1.5.1 (d) above and shall comply the examination criteria prescribed in 1.3 above.

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

1.5.2 The training programme

- (a) Sea going service shall be in accordance with the approval granted for the cadet training programme, in any case the total sea going service shall be complied with the regulation 11(b) of the Merchant Shipping (Standards of training, Certification and Watch keeping for Seafarers), Regulations, 2016 as amended.
- (b) The AMTIs shall conduct the approved Engineering cadet training programmes in compliance with the DGMS guidelines, core syllabuses & detailed syllabuses.
- (c) The Engineering cadet training programmes shall be;
 - (i) included an in-plant training period of at-least 2 Months prior to the initial seagoing phase and also total of 9 Months of in-plant training at SLPA or CDL or at any other similar training establishment which is approved by the DGMS prior to the commencement of the final phase of the Training Programme.
 - (ii) updated with the consent of the DGMS including the cadet training record book (TRB) and duly filled TRBs shall be verified by the respective AMTI.
 - (iii) A course completion certificate shall be issued to a candidate upon successful completion of the entire training programme in accordance the with the Reg. III/1, Sec. A-III/1 and guidance given in Sec. B-III/1 of the STCW Convention, indicating the course commencement date (Phase I) and course completion date (final phase) to be included in the final phase v certificate. and also individual letter or a certificate shall be issued to a candidate on successful completion of each phases of the training programme.

1.5.3 Course, Examinations and assessments procedure

The course content and the time duration, to achieve the minimum standards of competence shall be prepared as per the DGMS approved core syllabus.

- a) Examinations and assessments shall be conducted as stipulated in the approved training programme of the individual training institute and shall also be complied with the requirements laid down above in 1.3 above during the last phase of the programme
- b) The candidate shall have at least 85% of class room attendance for the respective subjects to appear for the final examination.

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

- (2) **Mandatory minimum requirements for Certificate of Competency Officer in-charge of an Engineering Watch limited to ships of propulsion power of between 750 kW and 3000 Kw on near coastal voyages. - under regulation 11(7) of the Merchant Shipping (Standards of training, Certification and Watch keeping for Seafarers) Regulations 2016, as amended.**

Every candidate for certification as Engineer Officers in charge of the Watch on ships of propulsion power between 750kW and 3000kW Near Coastal Voyages (NCV), shall be required to demonstrate the competence to undertake, at the operational level, the relevant tasks, duties and responsibilities listed in table A-III/1(NCV).

2.1 Eligibility criteria

- (a) Proof of identity⁴;
- (b) Confirmation of the medical fitness in accordance with schedule II of the **Merchant Shipping (Standards of training, Certification and Watch keeping for Seafarers) Regulations 2016, as amended**
- (c) Have Six passes at GCE O/L examination or equivalent acceptable to the DGMS including credit passes in Mathematics, Science and English⁵
- (d) Shall have completed the mandatory minimum requirements of training and qualifications stipulated in regulation 11.(7)(a)(b)(c) of the Merchant Shipping (Standards of training, Certification and Watch keeping for Seafarers) Regulations 2016, as amended;
- (e) Shall produce documentary evidence of sea service of 30 Months on ships of propulsion power of 750 kW or more, in a format as provided in Annex-B or in a similar format providing details mentioned therein.
- (f) Have successfully completed approved education, training, examination (preparatory course for officer in charge of an Engineering Watch on ships of propulsion power of between 750kW and 3000kW (NCV) with relevant Simulator based Training programmes meeting the standard of competence specified in Section A-III/1 of the STCW Code for officers in charge of Engineering watch on ships of propulsion power of between 750kW and 3000kW (NCV)

⁴ A birth certificate or a passport or a National Seafarer's Identity Document can be accepted as proof of identity

⁵ A birth certificate or a passport or a National Seafarer's Identity Document can be accepted as proof of identity

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

- (g) produce documentary evidence of having successfully completed the approved training in;
- i. Proficiency in basic Training (STCW Reg. VI/1) – Need to produce the Certificate of Proficiency in basic training issued by MSS.
 - ii. Proficiency in Survival Craft and Rescue Boats other than fast rescue boats (STCW Reg.VI/2 Para 1), Proficiency in Fast Rescue Boats (if applicable) (STCW Reg. VI/2 Para 2)
 - iii. Proficiency in advanced Fire Fighting (STCW Reg.VI/3)
 - iv. Proficiency in Medical First Aid (STCW Reg. VI/4 Para 1)
 - v. Proficiency in Ship Security Officer (STCW Reg.VI/5)
 - vi. Maritime English for operational level (STCW Sec. A-II/1)
 - vii. The Certificate(s) of the Simulator Training courses if used as a method for demonstrating the competence in accordance with the STCW Sec. A-III/1.

2.2 Eligibility criteria for the preparatory course

Letter of Eligibility (LOE)/batch approval is required to obtain through the AMTI in order to follow the relevant preparatory course prior enrolling. The said LOE is valid for a period of five years from the date of issue and further extensions will not be permitted without appropriate sea service.

- (a) Educational qualification as prescribe in 2.1 (c) above⁶
- (b) Sea going service in accordance with 11 (7) (b)(i) & (ii) of the Merchant Shipping (Standards of training, Certification and Watch keeping for Seafarers) Regulations 2016, as amended.
- (c) Confirmation of the medical fitness in accordance 2.1(b) above

2.3 Course, Examinations and assessment

- (a) The application for a LOE shall be made through an Approved Maritime Training Institute (AMTI) where the candidate is expecting to enroll to follow the relevant preparatory course. The AMTI shall ensure that the candidate is complying with the enrollment criteria as mentioned the in the Code of Practice and forward/upload the required documents to MSS.
- (b) Approved Maritime Training Institutes (AMTI) will conduct preparatory course for engineering Officer in charge of watch on ships ships of propulsion power of between 750kW and 3000kW

⁶ The equivalent educational qualifications mean educational qualifications accepted by Ministry of Education as equivalent to GCE O/L

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

(NCV) individually or combine with cadet training programme as required. The course content and the duration, to achieve the minimum standards of competence shall be as per the DGMS approved core syllabus and detailed syllabi.

- (c) The training programmes shall comply with the respective Reg. III/1, Sec. A-III/1 and guidance given in Sec. B-III/1 of the STCW Convention.
- (d) At the end of the approved training programme, AMTI's shall conduct an assessment before appearing for the examinations of the DGMS.
- (e) DGMS shall conduct examinations at the end of training programme to verify relevant standards of competence as mentioned in STCW Table A-III/1, have been achieved;
- (f) Final assessment will be conducted by the DGMS and conducting an examinations for below mentioned subjects as per the examination calendar.
- (g) All examination papers with the answers scripts will be prepared at the beginning of the year and relevant Examiner/ moderator(s) appointed by DGMS is responsible for setting of question papers, moderation of question papers, preparation of model answers, moderation of model answers and releasing of results.
- (h) The answer scripts of the subjects listed in Part 1 below, will be scrutinized by the AMTIs and answer scripts of the subjects listed in Part 2 will be scrutinized by the examiners appointed by the DGMS.
- (I) Seafarers shall have minimum of 85% of class room attendance to be eligible to sit for the final examination.
- (J) DGMS shall conduct examinations of the following subjects as per the examination calendar.

<h1 style="margin: 0;">MSS</h1> <h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
	<i>Date of 1st issue</i>	2015-05-13
	<i>Issued by</i>	MR
	<i>Approved by</i>	DGMS
	<i>Revised status</i>	01
	<i>Revised date</i>	2024.02.22

Part 1

Subjects	Type of examination	Duration (hrs)	Pass marks
Mathematics	Written	03	50
Applied Mechanics	Written	03	50
Thermodynamics	Written	03	50
Electro Technology	Written	03	50
Ship Construction/ Naval Architecture	Written	03	50
Maritime Law	Written	03	50

Part 2

Subjects	Type of examination	Duration (hrs)	Pass marks
Engineering Knowledge General	Written	03	50
Engineering Knowledge Motor	Written	03	50
Oral Examination	After evaluation of the Examiner		

- (i) Candidates who have successfully completed the National Diploma in Technology (NDT) in Marine Engineering, 03 years programme and 12 months of sea training on-board the vessel power of 750kW or more and the Candidates who have successfully completed the National Diploma in Engineering Sciences (NDES) in Marine Engineering, 04 years programme (Including 12 months of sea training) shall be exempted from the subjects in above part 1, and the candidates who have successfully completed the National Diploma in Engineering Sciences.

Successful candidates of NDT and NDES Mechanical Engineering and done in-plant training at Colombo Dockyard and SLPA with 12 months approved sea going service on-board the vessel power of 750kW or more after obtaining the course completion certificate shall follow the subjects as specified in above both part 1 & 2

- Note:** (a) (i) Candidate shall have three consecutive appearing for the written examination, if the former sitting is unsuccessful.
- (ii) Examinations are conducted as per annual examination calendar.
- (iii) Validity period shall be 5 years for subjects listed in Part I and Part II above
- (iv) Above time period will be counterered from the date which the results are released.

MSS	Code of Practice <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

- (b) Candidate shall have three consecutive appearing for the oral examination, at intervals of at least 14 days duration between each sitting if the former sitting is unsuccessful.
- (c).The examiner will be decided whether the candidate to have further 03 months of approved sea going experience or 2 months in academic training before the next attempt if the candidate is unsuccessful in first three appearing in (a) or (b) above.

2.4 Exemptions and limitations

Seafarers who have performed approved sea going service on ships of lesser kW-Power than the requirement or the service on special category ships or limited machinery spaces may be issued with a Certificate of Competency with limitations appropriate to the sea service held, considering the special requirements of the trade subjected to computation of sea service in Reg. 19 of gazette notification 1987/19.

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

Section A-III/2

3. Mandatory minimum requirements for certification of second engineer officers on ships powered by main propulsion machinery of 3000kW propulsion power or more under regulation 11(5) of the Merchant Shipping (Standards of training, Certification and Watch keeping for Seafarers) Regulations 2016, as amended.

Every candidate for certification of second engineer officers shall require to demonstrate the required standard of competence to undertake the duties, tasks, and responsibilities at the management level, tasks, duties as tabulated in the table of Section A-III/2 of the STCW Code.

3.1 Eligibility criteria

- (a) Confirmation of the medical fitness in accordance with schedule II of the the Merchant Shipping (Standards of training, Certification and Watch keeping for Seafarers) Regulations 2016, as amended⁷;
- (b) Shall have completed the mandatory minimum sea going requirements as stipulated in regulation 11.(5)(a)(b) of the Merchant Shipping (Standards of training, Certification and Watch keeping for Seafarers) Regulations 2016, as amended.
- (c) Hold a valid Certificate of Competency as Officer in-charge of an engineering watch or equivalent qualification accepted to the DGMS.
- (d) Shall produce documentary evidence of sea service of 18 Months which includes not less than 06 months of approved seagoing service on ships of propulsion power of 3000 kW or more, in a format as provided in Annex-B or in a similar format providing details at least as mentioned therein;
- (e) shall have successfully completed approved education, training, examination (preparatory course for main propulsion machinery of 3000kW propulsion power or more) including relevant Simulator based Training programmes or equivalent qualifications meeting the appropriate standard of competence specified in Section A-III/2 of the STCW.

⁷ Foreign students may obtain valid medical fitness certificates and eye sight test certificates by approved medical practitioners of the national administration

¹⁰The equivalent educational qualifications mean educational qualifications accepted by Ministry of Education as equivalent to GCE O/L & A/L

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

(f) Produce documentary evidence of having successfully completed the approved training in;

- i. Basic Training (STCW Reg. VI/1)
- ii. Proficiency in Survival Craft and Rescue Boats (Table A-VI/2-1 in STCW Code),
- iii. Advanced Fire Fighting (Table A-VI/3 in STCW Code),
- iv. Medical First Aid (Table A-VI/4-1 in STCW Code),
- v. Ship Security Officer (Table A-VI/5 in STCW Code)
- vi. Maritime English for operational/management level
- vii. Relevant Simulator based Training programmes if used in Training and assessment or equivalent qualifications meeting the appropriate standard of competence specified in Section A-III/2 of the STCW, and
- viii. The Certificate(s) of the Simulator Training courses if used as a method for demonstrating the competence in accordance with the STCW Sec. A-III/2.

3.2 Eligibility criteria for the preparatory course

Letter of Eligibility (LOE) is required to obtain through the an Approved Maritime Training Institute (AMTI) in order to follow the preparatory course prior to enroll. The said letter of eligibility is valid for a period of five years from the date of issue and further extensions will not be permitted.

- (a). Sea going service as stipulated in 3.1(b)(c)&(d) as above,
- (b) Confirmation of the medical fitness in accordance 3.1(a) above

3.3 Course, examinations and assessments process

- (a) The application for a LOE shall be made through an AMTI where the candidate is expecting to enroll to follow the relevant preparatory course. The AMTIs shall ensure that the candidate is complying with the enrollment criteria as mentioned the in the Code of Practice and forward/upload the required documents to MSS.
- (b) The AMTIs may conduct preparatory courses for second engineering officer of main propulsion power of 3000kW or more to cater for eligible seafarers. The course contents and the durations, to achieve the minimum standards of competence shall be as per the DGMS approved core and detailed syllabuses.
- (c) The training programmes shall comply with the Reg. III/2, Sec. A-III/2 and guidance given in Sec. B-III/2 of the STCW Convention.

MSS	Code of Practice <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

- (d) At the end of the approved training programme, AMTI's shall conduct an assessment before appearing for the final examinations conducted by the DGMS to verify the relevant standards of competence as mentioned in STCW Table A-III/2, have been achieved;
- (e) Final assessment will be conducted by the DGMS for the subjects mentioned below as per the examination calendar.
- (f) All examination papers with the answers scripts will be prepared at the beginning of the each year and relevant Examiner(s)/ moderator(s) appointed by DGMS is responsible for setting of question papers, moderation of question papers, preparation of model answers, moderation of model answers and releasing of results.
- (g) The answer scripts of the subjects listed in Part 1 below, will be scrutinized by the AMTIs and answer scripts of the subjects listed in Part 2 will be scrutinized by the examiners appointed by the DGMS.
- (l) Seafarers shall have minimum of 85% of class room attendance to be eligible to sit for the final examination.
- (j) DGMS shall conduct examinations of the following subjects as per the examination calendar.

Part 1

Subjects	Type of examination	Duration (hrs)	Pass marks
Mathematics	Written	03	50
Applied Mechanics	Written	03	50
Thermodynamics	Written	03	50
Electro Technology	Written	03	50
Naval Architecture and Ship Construction	Written	03	50
Maritime Law	Written	03	50
Marine Engineering Drawing and Design	Written	03	50
Automation and Control	Written	03	50
Dockyard Training (At the end of main course)	Refer the core syllabus		

<h1 style="margin: 0;">MSS</h1> <h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
	<i>Date of 1st issue</i>	2015-05-13
	<i>Issued by</i>	MR
	<i>Approved by</i>	DGMS
	<i>Revised status</i>	01
	<i>Revised date</i>	2024.02.22

Part 2

Subjects	Type of examination	Duration (hrs)	Pass marks
Engineering Knowledge General	Written	03	50
Engineering Knowledge Motor	Written	03	50
Oral Examination	Oral	After evaluation of the Examiner	

Note: (a) (i) Candidate shall have three consecutive appearing for the written examination, if the former sitting is unsuccessful.

- (ii) Examinations are conducted as per annual examination calendar.
- (iii) Validity period shall be 5 years for subjects listed in Part I and Part II above
- (iv) Above time period will be counterded from the date which the results are released.

(b) Candidate shall have three consecutive appearing for the oral examination, at intervals of at least 14 days duration between each sitting if the former sitting is unsuccessful.

(c) The examiner will be decided whether the candidate to have further 03 months of approved sea going experience or 2 months in academic training before the next attempt if the candidate is unsuccessful in first three appearing in (a) or (b) above.

3.4 Upgrading of COCs, exemptions and limitations

- a) Upgrading of COCs as a Second Engineer between 750 kW and 3000 kW to Second Engineer on ships of more 3000 kW (Unlimited):
 - i) Shall have at least 12 months of approved sea going service as Second Engineer on ships of more than 750 kW with a valid CoC in accordance with STCW Reg. III/3
 - ii) Successfully completion of an oral test conducted by the DGMS

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

b) Exemptions and limitations

Seafarers who have performed approved sea going service on ships of lesser propulsion power than the requirement or service on special category ships may be issued with a Certificate of Competency with limitations appropriate to the sea service held, considering the special requirements of the trade subjected to computation of sea service in Reg. 19 of gazette notification 1987/19.

4. Mandatory minimum requirements for certification of Chief engineer officers on ships powered by main propulsion machinery of 3000kW propulsion power or more under regulation 11(6) of the Merchant Shipping Standards of training, Certification and Watch keeping for Seafarers as amended

Every candidate for certification of second engineer officers shall require to demonstrate the required standard of competency to undertake duties at the management level, tasks, duties and responsibilities tabulated in the table of Section A-III/2 of the STCW Code.

4.1 Eligibility criteria

- (a) Confirmation of the medical fitness in accordance with schedule II **of the Merchant Shipping Standards of training, Certification and Watch keeping for Seafarers as amended⁸**;
- (b) Shall have completed the mandatory minimum requirements of training and qualifications stipulated in regulation 11.(6)(a)(b) **of the Merchant Shipping Standards of training, Certification and Watch keeping for Seafarers as amended.**
- (c) Shall produce documentary evidence of sea service and engine-room watch keeping in a format as provided in Annex-B or in a similar format providing details mentioned therein;

⁸ Foreign students may obtain valid medical fitness certificates and eye sight test certificates by approved medical practitioners of the national administration

¹⁰The equivalent educational qualifications mean educational qualifications accepted by Ministry of Education as equivalent to GCE O/L & A/L

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

(d) shall have successfully completed approved education, training, examination (preparatory course for main propulsion machinery of 3000kW propulsion power or more) including relevant Simulator based Training programmes meeting the standard of competence specified in Section A-III/2 of the STCW.

(e) Produce documentary evidence of having successfully completed the approved training in;

- i. Basic Training (STCW Reg. VI/1)
- ii. Proficiency in Survival Craft and Rescue Boats (Table A-VI/2-1 in STCW Code)
- iii. Advanced Fire Fighting (Table A-VI/3 in STCW Code),
- iv. Medical First Aid (Table A-VI/4-1 in STCW Code),
- v. Ship Security Officer (Table A-VI/5 in STCW Code)
- vi. Maritime English for operational/management level
- vii. The Certificate(s) of the Simulator Training courses if used as a method for demonstrating the competence in accordance with the STCW Sec. A-III/2.

4.2 Eligibility criteria for the preparatory course

Letter of Eligibility (LOE) is required to obtain through the AMTI in order to follow the preparatory course prior to enroll. The said letter of eligibility is valid for a period of five years from the date of issue and further extensions will not be permitted.

(a).Sea going service as stipulated in 4.1(b)(c) as above,

(b) Confirmation of the medical fitness in accordance 4.1(a) above

4.3 Course, examinations and assessments process

(a). The application for a LOE shall be made through an Approved Maritime Training Institute (AMTI) where the candidate is expecting to enroll to follow the relevant preparatory course. The AMTI shall ensure that the candidate is complying with the enrollment criteria as mentioned the in the Code of Practice and forward the required documents to MSS.

(b) Approved Maritime Training Institutes may conduct preparatory courses for second engineering officer of main propulsion power of 3000kW or more to cater for eligible seafarers. The course contents and the durations, to achieve the minimum standards of competence shall be as per the DGMS approved core and detailed syllabuses.

MSS	Code of Practice <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

- (c) The training programmes shall comply with the Reg. III/2, Sec. A-III/2 and guidance given in Sec. B-III/2 of the STCW Convention.
- (d) At the end of the approved training programme, AMTI's shall conduct an assessment prior to examinations conducted by the DGMS.
- (e) DGMS shall conduct final assessment at the end of training programme for below mentioned subjects as per the examination calendar to verify the standards of competence as mentioned in STCW Table A-III/2, have been achieved;
- (f) All examination papers with the answers scripts will be prepared at the beginning of the year and relevant Examiner/ moderator(s) appointed by DGMS is responsible for setting of question papers, moderation of question papers, preparation of model answers, moderation of model answers and releasing of results.
- (g) The answer scripts of the subjects listed below in Part 1 & 2 will be scrutinized by the examiners appointed by the DGMS.
- (h) Seafarers shall have minimum of 85% of class room attendance for the respective subjects to be eligible for appearing in the final examination.
- (i) DGMS shall conduct examinations of the following subjects as per the examination calendar.

Part 1

Subjects	Type of examination	Duration (hrs)	Pass marks
Marine Electro technology	Written	03	50
Naval Architecture and Ship Construction	Written	03	50
Automation and Control	Written	03	50
Maritime Law and Personnel Management	Written	03	50
Bridge Engine Resource Management	Written	03	50
Dockyard Training Programme	Refer the Core syllabus		

Part 2

Subjects	Type of examination	Duration (hrs)	Pass marks

MSS	Code of Practice <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

Engineering Knowledge General	Written	03	50
Engineering Knowledge Motor	Written	03	50
Oral Examination	Oral	After evaluation of the Examiner	

- Note:** (a) (i) Candidate shall have three consecutive appearing for the written examination, if the former sitting is unsuccessful.
(ii) Examinations are conducted as per annual examination calendar.
(iii) Validity period shall be 5 years for subjects listed in Part I and Part II above
(iv.) Above time period will be counterded from the date which the results are released

(b) Candidate shall have three consecutive appearing for the oral examination, at intervals of at least 14 days duration between each sitting if the former sitting is unsuccessful.

- (c). The examiner will be decided whether the candidate to have further 03 months of approved sea going experience or 2 months in academic training before the next attempt if the candidate is unsuccessful in first three appearing in (a) or (b) above.

4.4 Exemptions and limitations

Seafarers who have performed approved sea going service on ships of lesser propulsion power than the requirement or service on special category ships may be issued with a Certificate of Competency with limitations appropriate to the sea service held, considering the special requirements of the trade subjected to computation of sea service in Reg. 19 of gazette notification 1987/19.

<h1 style="margin: 0;">MSS</h1> <h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
	<i>Date of 1st issue</i>	2015-05-13
	<i>Issued by</i>	MR
	<i>Approved by</i>	DGMS
	<i>Revised status</i>	01
	<i>Revised date</i>	2024.02.22

Section A-III/3

5. Mandatory minimum requirements for certification second engineer officers on ships powered by main propulsion machinery of between 750KW and 3000KW propulsion power on near coastal voyages under regulation 11(8) of the Merchant Shipping Standards of training, Certification and Watch keeping for Seafarers as amended

Every candidate for certification of second engineer officers shall require to demonstrate the required standard of competency to undertake duties at the management level, tasks, duties and responsibilities tabulated in the table of Section A-III/3 of the STCW Code.

5.1 Eligibility criteria

- (a) Confirmation of the medical fitness in accordance with schedule II **of the Merchant Shipping Standards of training, Certification and Watch keeping for Seafarers as amended**⁹;
- (b) Shall have completed the mandatory minimum requirements of training and qualifications stipulated in regulation 11.(8)(a)(b)&(c) **of the Merchant Shipping Standards of training, Certification and Watch keeping for Seafarers as amended.**
- (c) Shall produce documentary evidence of sea service and engine-room watch keeping in a format as provided in Annex-B or in a similar format;
- (d) shall have successfully completed approved education, training, examination (preparatory course for main propulsion machinery of between 750KW and 3000KW propulsion power on near coastal voyages) including relevant Simulator based Training programmes meeting the standard of competence specified in Section A-III/3 of the STCW.
- (e) Produce documentary evidence of having successfully completed the approved training in;

⁹ Foreign students may obtain valid medical fitness certificates and eye sight test certificates by approved medical practitioners of the national administration

¹⁰The equivalent educational qualifications mean educational qualifications accepted by Ministry of Education as equivalent to GCE O/L & A/L

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

- (c) Basic Training (STCW Reg. VI/1)
- (ii) Proficiency in Survival Craft and Rescue Boats (Table A-VI/2-1 in STCW Code),
- (iii).Advanced Fire Fighting (Table A-VI/3 in STCW Code),
- (ii) Medical First Aid (Table A-VI/4-1 in STCW Code),
- (iii)Ship Security Officer (Table A-VI/5 in STCW Code)
- (iv)Maritime English for operational/management level
- (v) The Certificate(s) of the Simulator Training courses if used as a method for demonstrating the competence in accordance with the STCW Sec. A-III/2.

5.2 Eligibility criteria for the preparatory course

Letter of Eligibility (LOE) is required to obtain through the AMTI in order to follow the preparatory course (before enrolling to such a course) The said letter of eligibility is valid for a period of five years from the date of issue and further extensions will not be permitted without appropriate sea service.

- (a).Sea going service as stipulated in 5.1(b)(c) as above,
- (b) Confirmation of the medical fitness in accordance 5.1(a) above

5.3 Course, examinations and assessments process

- (a) The application for a LOE shall be made through an Approved Maritime Training Institute (AMTI) where the candidate is expecting to enroll to follow the relevant preparatory course. The AMTI shall ensure that the candidate is complying with the enrollment criteria as mentioned the in the Code of Practice and forward the required documents to MSS.
- (b) Approved Maritime Training Institutes may conduct preparatory courses for second engineer officers on ships powered by main propulsion machinery of between 750kW and 3000kW propulsion power on near coastal voyages under regulation to cater for eligible seafarers. The course contents and the durations, to achieve the minimum standards of competence shall be as per the DGMS approved core and detailed syllabuses.
- (c)The training programmes shall comply with the Reg. III/3, Sec. A-III/3 and guidance given in Sec. B-III/3 of the STCW Convention.
- (d) At the end of the approved training programme, AMTI's shall conduct an assessment before appearing for the examinations of the DGMS.

<h1 style="margin: 0;">MSS</h1> <h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
	<i>Date of 1st issue</i>	2015-05-13
	<i>Issued by</i>	MR
	<i>Approved by</i>	DGMS
	<i>Revised status</i>	01
	<i>Revised date</i>	2024.02.22

- (e) DGMS shall conduct examinations at the end of training programme to verify standards of competence as mentioned in STCW Table A-III/3, have been achieved;
- (f) Final assessment will be conducted by the DGMS and conducting an examinations for below mentioned subjects as per the examination calendar or on pre-agreed times, dates & venues with the AMTIs.
- (g) All examination papers with the answers scripts will be prepared at the beginning of the year and relevant Examiner/ moderator(s) appointed by DGMS is responsible for setting of question papers, moderation of question papers, preparation of model answers, moderation of model answers and releasing of results.
- (h) The answer scripts of the subjects listed below in Part 1& 2 will be scrutinized by the examiners appointed by the DGMS.
- (i). Seafarers shall have minimum of 85% of class room attendance to be eligible to sit for the final examination.
- (j).DGMS shall conduct examinations of the following subjects as per the examination calendar.

Part - 1

Subjects	Type of examination	Duration (hrs)	Pass marks
Mathematics	Written	03	50
Mechanics and Hydro Mechanics	Written	03	50
Thermodynamics and Heat transmission	Written	03	50
Marine Electro Technology	Written	03	50
Naval Architecture and Ship Construction	Written	03	50
Maritime Law and Personnel Management	Written	03	50
Marine Engineering Drawing and Design	Written	03	50

MSS	Code of Practice <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

Automation and Control	Written	03	50
Dockyard Training (At the end of main course)	Refer the Core syllabus		

Part – 2

Subjects	Type of examination	Duration (hrs)	Pass marks
Engineering Knowledge General	Written	03	50
Engineering Knowledge Motor	Written	03	50
Oral Examination	Oral	After evaluation of the Examiner	

- Note:** (a) (i) Candidate shall have three consecutive appearing for the written examination, if the former sitting is unsuccessful.
(ii) Examinations are conducted as per annual examination calendar.
(iii) Validity period shall be 5 years for subjects listed in Part I and Part II above
(iv) Above time period will be countered from the date which the results are released.

(b) Candidate shall have three consecutive appearing for the oral examination, at intervals of at least 14 days duration between each sitting if the former sitting is unsuccessful.

(c) The examiner will be decided whether the candidate to have further 03 months of approved sea going experience or 2 months in academic training before the next attempt if the candidate is unsuccessful in first three appearing in (a) or (b) above.

5.4 Exemptions and limitations

Seafarers who have performed approved sea going service on ships of lesser propulsion power than the requirement or service on special category ships may be issued with a Certificate of Competency with

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

limitations appropriate to the sea service held, considering the special requirements of the trade subjected to computation of sea service in Reg. 19 of gazette notification 1987/19.

6. Mandatory minimum requirements for certification Chief engineer officers on ships powered by main propulsion machinery of between 750KW and 3000KW propulsion power on near coastal voyages under regulation 11(9) of the Merchant Shipping Standards of training, Certification and Watch keeping for Seafarers as amended

Every candidate for certification of second engineer officers shall require to demonstrate the required standard of competency to undertake duties at the management level, tasks, duties and responsibilities tabulated in the table of Section A-III/3 of the STCW Code.

6.1 Eligibility criteria

- (a) Confirmation of the medical fitness in accordance with schedule 11 of the **Merchant Shipping Standards of training, Certification and Watch keeping for Seafarers as amended**¹⁰;
- (b) Shall have completed the mandatory minimum requirements of training and qualifications stipulated in regulation 11.(9)(a)(b) of the **Merchant Shipping Standards of training, Certification and Watch keeping for Seafarers as amended**.
- (c) Shall produce documentary evidence of sea service and engine-room watch keeping in a format as provided in Annex-B or in a similar format;
- (d) shall have successfully completed approved education, training, examination (preparatory course for main propulsion machinery of between 750KW and 3000KW propulsion power on near coastal voyages) including relevant Simulator based Training programmes meeting the standard of competence specified in Section A-III/3 of the STCW.
- (e) Produce documentary evidence of having successfully completed the approved training in;

¹⁰ Foreign students may obtain valid medical fitness certificates and eye sight test certificates by approved medical practitioners of the national administration

¹⁰The equivalent educational qualifications mean educational qualifications accepted by Ministry of Education as equivalent to GCE O/L & A/L

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

- (i) Basic Training (STCW Reg. VI/1)
- (ii) Proficiency in Survival Craft and Rescue Boats (Table A-VI/2-1 in STCW Code),
- (iii) Advanced Fire Fighting (Table A-VI/3 in STCW Code),
- (iv) Medical First Aid (Table A-VI/4-1 in STCW Code),
- (v) Ship Security Officer (Table A-VI/5 in STCW Code)
- (vi) Maritime English for operational/management level
- (vii). The Certificate(s) of the Simulator Training courses if used as a method for demonstrating the competence in accordance with the STCW Sec. A-III/2.

6.2 Eligibility criteria for the preparatory course

Letter of Eligibility (LOE) is required to obtain through the AMTI in order to follow the preparatory course (before enrolling to such a course) The said letter of eligibility is valid for a period of five years from the date of issue and further extensions will not be permitted without appropriate sea service.

- (a). Sea going service as stipulated in 6.1(b)(c) as above,
- (b) Confirmation of the medical fitness in accordance 6.1(a) above

6.3 Course, examinations and assessments process

(a). The application for a LOE shall be made through an Approved Maritime Training Institute (AMTI) where the candidate is expecting to enroll to follow the relevant preparatory course. The AMTI shall ensure that the candidate is complying with the enrollment criteria as mentioned the in the Code of Practice and forward the required documents to MSS

(b) Approved Maritime Training Institutes may conduct preparatory courses for second engineer officers on ships powered by main propulsion machinery of between 750kW and 3000kW propulsion power on near coastal voyages under regulation to cater for eligible seafarers. The course contents and the durations, to achieve the minimum standards of competence shall be as per the DGMS approved core and detailed syllabuses.

(c) The training programmes shall comply with the Reg. III/3, Sec. A-III/3 and guidance given in Sec. B-III/3 of the STCW Convention.

(d) At the end of the approved training programme, AMTI's shall conduct an assessment before appearing for the examinations of the DGMS.

<h1>MSS</h1> <h2>Code of Practice</h2> <p><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
	<i>Date of 1st issue</i>	2015-05-13
	<i>Issued by</i>	MR
	<i>Approved by</i>	DGMS
	<i>Revised status</i>	01
	<i>Revised date</i>	2024.02.22

- (d) DGMS shall conduct examinations at the end of training programme to verify standards of competence as mentioned in STCW Table A-III/3, have been achieved;
- (e) Final assessment will be conducted by the DGMS and conducting an examinations for below mentioned subjects as per the examination calendar or on pre-agreed times, dates & venues with the AMTIs.
- (f) All examination papers with the answers scripts will be prepared at the beginning of the year and relevant Examiner/ moderator(s) appointed by DGMS is responsible for setting of question papers, moderation of question papers, preparation of model answers, moderation of model answers and releasing of results.
- (h). The answer scripts of the subjects listed below in Part 1& 2 will be scrutinized by the examiners appointed by the DGMS.
- (i). Seafarers shall have minimum of 85% of class room attendance to be eligible to sit for the final examination.
- (j) DGMS shall conduct examinations of the following subjects as per the examination calendar.

Subjects	Type of examination	Duration (hrs)	Pass marks
Marine Electro technology	Written	03	50
Naval Architecture and Ship Construction	Written	03	50
Automation and Control	Written	03	50
Engineering Knowledge Motor	Written	03	50
Engineering Knowledge General	Written	03	50
Maritime Law and Personnel Management	Written	03	50
Bridge Engine Resource Management	Written	03	50
Dockyard Training Programme (At the end of main course)	Refer the core syllabus		

MSS	Code of Practice <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

Subjects	Type of examination	Duration (hrs)	Pass marks
Engineering Knowledge General	Written	03	50
Engineering Knowledge Motor	Written	03	50
Oral Examination	Oral	After evaluation of the Examiner	

Note: (a) (i) Candidate shall have three consecutive appearing for the written examination, if the former sitting is unsuccessful.

(ii) Examinations are conducted as per annual examination calendar.

(iii) Validity period shall be 5 years for subjects listed in Part I and Part II above

(iv) Above time period will be countered from the date which the results are released.

(b) Candidate shall have three consecutive appearing for the oral examination, at intervals of at least 14 days duration between each sitting if the former sitting is unsuccessful.

(c) The examiner will be decided whether the candidate to have further 03 months of approved sea going experience or 2 months in academic training before the next attempt if the candidate is unsuccessful in first three appearing in (a) or (b) above.

6.4 Exemptions and limitations

Seafarers who have performed approved sea going service on ships of lesser propulsion power than the requirement or service on special category ships may be issued with a Certificate of Competency with limitations appropriate to the sea service held, considering the special requirements of the trade subjected to computation of sea service in Reg. 19 of gazette notification 1987/19.

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

7.0 Mandatory minimum requirements for certification of ratings forming part of a watch in a manned engine-room or designated to perform duties in a periodically unmanned engine-room-under regulation 11(11) of the Merchant Shipping Standards of training, Certification and Watch keeping for Seafarers as amended

Every rating forming part of an engine-room watch on a seagoing ship of main propulsion power of 750 Kw or more shall be required to demonstrate the competencies as specified in table A-III/4 of the STCW Code to perform duties in the engine-room at the support level.

7.1 Eligibility criteria

- (a) Proof of identity¹¹;
- (b) Confirmation of the medical fitness in accordance with schedule II **of the Merchant Shipping Standards of training, Certification and Watch keeping for Seafarers as amended**¹²;
- (c) Shall have completed the mandatory minimum requirements of training and qualifications stipulated in regulation 11.(11)(a)(b)&(c) **of the Merchant Shipping Standards of training, Certification and Watch keeping for Seafarers as amended**;
- (d) Relevant sea service experience shall be provided in the format of Annex– B or in a similar format providing details mentioned therein;
- (e) produce documentary evidences of having successfully completed approved training in;
 - i) Proficiency in basic Training (STCW Reg. VI/1) – Need to produce the Certificate of Proficiency in basic training issued by MSS.
 - ii) Seafarers with designated security duties (STCW REg.VI/6 Para 4);
 - iii) Maritime English – support level
- (f) Completed approved training record book (TRB) up to the satisfaction of the relevant examiner.

¹¹ A birth certificate or a passport or a National Seafarer’s Identity Document can be accepted as proof of identity

¹² Foreign students may obtain valid medical fitness certificates and eye sight test certificates by approved medical practitioners of the national administration

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

7.2 Entry criteria for pre-sea training course of Engine rating

Letter of Eligibility (LOE) is required to obtain through the AMTI in order to follow the preparatory course (before enrolling to such a course) The said letter of eligibility is valid for a period of five years from the date of issue and further extensions will not be permitted without appropriate sea service.

- (i) Sea going service as stipulated in 7.1(c)(d) as above,
- (ii) Confirmation of the medical fitness in accordance 7.1(b) above
- (iii) shall have studied up to General Certificate of Education Ordinary Level (GCE O/L) or equivalent educational qualifications accepted by the Director General of Merchant Shipping¹³;

7.3 Course, examinations and assessments process

- (a) Training requirements for the candidates under category of regulation 11.(11)(b) **of the Merchant Shipping Standards of training, Certification and Watch keeping for Seafarers as amended**
 - (i) The application for a batch approval shall be made through an Approved Maritime Training Institute (AMTI) where the candidate is expecting to enroll to follow the relevant pre-sea training course. The AMTI shall ensure that the candidate is complying with the enrollment criteria as mentioned the in the Code of Practice and forward the required documents to the MSS.
 - (ii) Approved Maritime Training Institutes may conduct preparatory courses for rating forming part of an Engineering watch to cater for eligible seafarers. The course contents and the durations, to achieve the minimum standards of competence shall be as per the DGMS approved core and detailed syllabuses.
 - (iii) The duration of the training programmes shall be of at least **3months**, complying with the Reg. III/4, Sec. A-III/4 and guidance given in Sec. B-III/4 of the STCW Convention.

¹³ The equivalent educational qualifications mean educational qualifications accepted by Ministry of Education as equivalent to GCE O/L

MSS	Code of Practice <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

- (iv) At the end of the approved training programme, AMTI's shall conduct an assessment before appearing for the examinations at the DGMS.
- (v) DGMS shall conduct an assessment for a candidate to verify standards of competence as mentioned in STCW Table A-III/4, has been achieved;
- (vi) Seafarers shall have minimum of 100% of class room attendance to be eligible to sit for the final examination.
- (vii) DGMS shall conduct examinations of the subjects mentioned in the part 2 as per the examination calendar.

Part - 1

Subjects	Type of examination	Duration (hrs)	Pass marks
Engineering knowledge I	Written	01	50
General engineering, Safety, Motor, Maritime lw			
Engineering knowledge II	Written	03	50
General engineering, Safety, Basic electrical knowledge			
Oral examination	Oral test	0.5	After evaluation of the Examiner
Work shop practical test	Practical	0.5	70%

Part 2

Subjects	Type of examination	Duration (hrs)	Pass marks
Engineering Knowledge General and Motor	MCQ or	01	50

MSS	Code of Practice <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

Oral Examination	Oral,	After evaluation of the Examiner
------------------	-------	----------------------------------

Note: (a) Candidate shall have three consecutive appearances for an oral examination if the examiner decided to conduct an oral examination, at intervals of at least 7 days duration between each appearing if the previous sitting is unsuccessful.

(b) The examiner will be decided whether the candidate to have further 03 months of approved sea going experience or 2 months in academic training before the next attempt if the candidate is unsuccessful.

7.4 Exemptions and limitations

Seafarers who have performed approved sea going service on ships of lesser propulsion power than the requirement or service on special category ships may be issued with a Certificate of Proficiency with limitations appropriate to the sea service held, considering the special requirements of the trade subjected to computation of sea service in Reg. 19 of gazette notification 1987/19.

<h1 style="margin: 0;">MSS</h1> <h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
	<i>Date of 1st issue</i>	2015-05-13
	<i>Issued by</i>	MR
	<i>Approved by</i>	DGMS
	<i>Revised status</i>	01
	<i>Revised date</i>	2024.02.22

Section A-III/5

8. Mandatory minimum requirements for certification of ratings as able seafarer engine in a manned engine-room or designated to perform duties in a periodically unmanned engine-room under regulation 11(12) of the Merchant Shipping Standards of training, Certification and Watch keeping for Seafarers as amended

Every able seafarer engine serving on a seagoing ship of main propulsion power 750 kW or more shall require to demonstrate the competencies as specified in table A-III/5 of the STCW Code to perform the duties at the support level.

8.1 Eligibility criteria

- (a) Proof of identity¹⁴;
- (b) Confirmation of the medical fitness in accordance with schedule II **of the Merchant Shipping Standards of training, Certification and Watch keeping for Seafarers as amended**¹⁵;
- (c) Shall have completed the mandatory minimum requirements of training and qualifications stipulated in regulation 11.(12)(a)(b)(c) **of the Merchant Shipping Standards of training, Certification and Watch keeping for Seafarers as amended**;
- (d) Relevant sea service as in above (c) and sea service may be in the format of Annex– B or in a format providing the details as in given format in Annex -B, acceptable to the examiner.
- (e) have completed **60 hrs of** an approved education, training and assessment meet the standard of competence specified in section A-III/5 of the Code
- (f) produce documentary evidences of having successfully completed approved training in;
 - (i) Proficiency in basic Training (STCW Reg. VI/1) – Need to produce the Certificate of Proficiency in basic training issued by MSS.
 - (ii) Seafarers with designated security duties (STCW REg.VI/6 Para 4);
 - (iii) Proficiency in Survival Craft and Rescue boats (STCW Reg.VI/2 Para 1),

¹⁴ A birth certificate or a passport or a National Seafarer’s Identity Document can be accepted as proof of identity

¹⁵ Foreign students may obtain valid medical fitness certificates and eye sight test certificates by approved medical practitioners of the national administration

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

(iv) Maritime English – support level

- (g) Have completed 12 months of sea service after qualifying as a Rating forming part of an engineering with duly filled training record book (TRB) to the satisfaction of the relevant AMTI or; and examiner.

8.2 Entry criteria for pre-sea training course for able seafarer deck

Letter of Eligibility (LOE) is required to obtain in order to follow the preparatory course (before enrolling to such a course) The said letter of eligibility is valid for a period of five years from the date of issue and further extensions will not be granted if not fulfilled the;

- (i) Sea going service as stipulated in 8.1(c)(d) as above;
- (ii) Confirmation of the medical fitness in accordance 8.1(b) above.

8.3 Course, examinations and assessments procedure

- (a) The application for a Letter of Eligibility (LOE) shall be submitted to an Approved Maritime Training Institute (AMTI) where the candidate is expecting to enroll to follow the relevant preparatory course. The AMTI shall responsible to check the eligibility of the candidates complying with the enrollment criteria as mentioned the in this Code of Practice and to forward the required documents to the MSS.
- (b) Approved Maritime Training Institutes may conduct preparatory course for eligible seafarers. A time table, the detail syllabus and student notes shall be provided consisting but not limited to the course contents, to achieve the minimum standards of competence complying with the guidelines, conditions, core and detailed syllabus issued by the DGMS.
- (c) The AMTI shall ensure to conduct the training programmes complying with the Reg. III/5, Sec. A-III/5 and guidance given in Sec. B-III/5 of the STCW Convention.
- (d) The AMTI's shall conduct an assessment at the end of the approved training programme, and successful candidates shall be allowed to appear for the DGMS examinations leading for certification as per Reg. III/5 of the STCW Convention.
- (e) The DGMS may conduct examinations or delegate at the end of training programme to verify standards of competence as mentioned in STCW Table A-III/5, have been achieved;

<h1>MSS</h1>	<h2>Code of Practice</h2> <p>Merchant Shipping Secretariat</p>	Document no	Issue 2
		Date of 1st issue	2015-05-13
		Issued by	MR
		Approved by	DGMS
		Revised status	01
		Revised date	2024.02.22

(f) Final assessment will be conducted by the DGMS and conducting an examinations for below mentioned subjects as per the examination calendar or on pre-agreed times, dates & venues with the AMTIs.

(g) All examination papers with the answers scripts will be prepared at the beginning of the year and relevant Examiner/ moderator(s) appointed by DGMS is responsible for setting of question papers, moderation of question papers, preparation of model answers, moderation of model answers and releasing of results.

(h) The answer scripts will be scrutinized by the examiners appointed by the DGMS.

(i) Seafarers shall have minimum of 100% of class room attendance to be eligible to sit for the final examination.

(j) DGMS shall conduct examinations of the following subjects as per the examination calendar.

(k) Examination and assessment of the following subjects shall be conducted by the nautical institute;

Part -1

Subjects	Type of examination	Duration (hrs)	Pass marks
Engineering knowledge I	Written	01	50
General engineering, Safety, Motor, Maritime low			
Engineering knowledge II	Written	01	50
General engineering, Safety, Basic electrical knowledge			
Oral examination	Oral test	0.5	After evaluation of the Examiner
Work shop practical test	Practical	0.5	70%

<h1 style="margin: 0;">MSS</h1> <h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
	<i>Date of 1st issue</i>	2015-05-13
	<i>Issued by</i>	MR
	<i>Approved by</i>	DGMS
	<i>Revised status</i>	01
	<i>Revised date</i>	2024.02.22

Part -2

Subjects	Type of examination	Duration (hrs)	Pass marks
Engineering Knowledge General and Motor	MCQ	01	50
Oral Examination	Oral,	After evaluation of the Examiner	

- Note:** (a) (i) Candidate shall have three consecutive appearing for the written examination, if the former sitting is unsuccessful.
(ii) Examinations are conducted as per annual examination calendar.
(iii) Validity period shall be 5 years for subjects listed in Part I and Part II above
(iv) Above time period will be countered from the date which the results are released.
- (b) Candidate shall have three consecutive appearing for the oral examination, at intervals of at least 7 days duration between each sitting if the former sitting is unsuccessful.
- (c).The examiner will be decided whether the candidate to have further 03 months of approved sea going experience or 2 months in academic training before the next attempt if the candidate is unsuccessful.

6.4 Exemptions and limitations

Seafarers who have performed approved sea going service on ships of lesser propulsion power than the requirement or service on special category ships may be issued with a Certificate of Proficiency with limitations appropriate to the sea service held, considering the special requirements of the trade subjected to computation of sea service in Reg. 19 of gazette notification 1987/19.

MSS	Code of Practice <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

(7) Section A-III/6

Mandatory minimum requirements for certification of electro-technical officers

Every candidate for certification of electro-technical officers according to the STCW Regulation III/6, to work on-board ships of propulsion power 750kW or more, shall be required to provide evidence of having achieved the required standard of competence in accordance with the methods for demonstrating competence and the criteria for evaluating competencies tabulated in table A-III/6 of the Code.

7.1 Eligibility criteria

- a) Shall not be less than 18 years of age;
- b) i) an eyesight standards test certificate confirming the standards specified in the table A-I/9 of the STCW Code; and
 - ii) A medical and physical fitness test certificate confirming the standards specified in the table B-I/9 of the STCW Code;and
- c) Sea going service
 - (i) Have completed not less than 30 months of combined workshop skills training and an approved seagoing service of which not less than 12 months shall be seagoing service as part of an approved training programme. This must be documented in an approved training record book (TRB) and associated workbook;
Or;

MSS	Code of Practice <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

- (ii) Not less than 36 months of combined workshop skills training and an approved seagoing service of which not less than 30 months shall be seagoing service as an electro technical rating. This must be documented in an approved training record book (TRB) and associated workbook.

And;

e)Have completed approved education, training, examination (Including the preparatory course for Electro Technical – Officer, who served as an in charge of marine electrical and performed electronic & control engineering duties of Oral, would be

at the discretion of the examiner

including relevant Simulator Training and assessment meeting the standard of competencies specified in Section A-III/6 in STCW Code.

- f) Produce documentary evidence of having successfully completed the approved training in;
- i) Personal Safety and Social Responsibility (Table A-VI/1-4 in STCW Code);
 - ii) Proficiency in Survival Craft and Rescue Boats (Table A-VI/2-1 in STCW Code);
 - iii) Advanced Fire Fighting (Table A-VI/3 in STCW Code);
 - iv) Medical First Aid (Table A-VI/4-1 in STCW Code);
 - v) Ship Security Officer (Table A-VI/5 in STCW Code);
 - vi) Maritime English for operational level;
 - vii) The Certificate(s) of the Simulator Training courses if used as a method for demonstrating the competence in accordance with the STCW Sec. A-III/6.

7.2 Entry criteria for the Modules of the preparatory course- seafarers who are having experience in the similar capacity as ETO.

- a) Seafarers need to fulfil the criteria as specified in 7.1 (a) to (e)

and;

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

- b) Seafarers who have obtained their CDCs after 31st of August 2008 and having appropriate seagoing service will be eligible only if they have credit passes for the subjects of mathematics, science and English at GCE O/L or equivalent educational qualifications accepted by the Director General of Merchant Shipping¹⁶; Or
- c) Seafarers who have obtained their CDC before 31st of August 2008 and having appropriate seagoing service will be eligible only if they have appeared for GCE O/L or equivalent educational qualifications accepted by the Director General of Merchant Shipping¹⁷; and
- d) i) Have completed Diploma or Degree in Electrical Engineering or equivalent qualifications approved by the DGMS and not less than 30 months of an approved seagoing service.

Or:

- ii) Have completed relevant education and training programme which is approved by the DGMS and not less than 30 months of an approved seagoing service and successfully completion of the Academic Module of "ELECTRONIC PRINCIPLES AND APPLICATIONS".

Or:

- iii) Have completed education and training programme in Electrical which is not approved by the DGMS and not less than 60 months of an approved seagoing service as Electrical Engineers, Electrical officers, Electricians or those who are served in the similar capacity as satisfaction to the DGMS;

And

Required to pass both the Academic Modules of "ELECTRO-TECHNOLOGY AND ELECTRICAL MACHINES THEORY" and "ELECTRONIC PRINCIPLES AND APPLICATIONS".

Or

- iv) Have an approved seagoing service while holding a Certificate of Proficiency in Electro-Technical Rating on a seagoing ship of main propulsion power of 750 kW or more for a period of not less than 12

¹⁶ The equivalent educational qualifications means educational qualifications accepted by Ministry of Education as equivalent to GCE O/L

¹⁷ The equivalent educational qualifications means educational qualifications accepted by Ministry of Education as equivalent to GCE O/L

MSS	Code of Practice <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

months which includes not less than 06 months of approved seagoing service on ships of propulsion power of 3000 kW or more; subjected to the criteria in the 7.2 (b) & (c);

And also

Required to pass both the Academic Modules of "ELECTRO-TECHNOLOGY AND ELECTRICAL MACHINES THEORY" and "ELECTRONIC PRINCIPLES & APPLICATIONS".

And

i) Individual seafarer shall obtain the letter of eligibility if wish to enroll into any of the ETO courses;

And

e)The validity of the "Letter of Eligibility" is two & half (2 ½)years.

7.3 Course, examinations and assessments process

The course content and the time duration, to achieve the minimum standards of competence shall be prepared as per the DGMS approved core syllabus.

- a) A copy of the eligibility shall be submitted to the respective approved training institute;
- b) The course duration shall not be less than as specified in the core syllabus. This time is excluding the approved training programmes as specified in above 7.1 (e);
- c) DGMS may delegate some or all the subjects to approved training institutes which require an assessment of candidates to verify standard of competencies has been achieved as tabulated in STCW Table A III/6;
- d) Under the supervision of DGMS, examination and assessment of the following subjects have been delegated to approved training institutes;

<h1>MSS</h1>	<h2>Code of Practice</h2> <p>Merchant Shipping Secretariat</p>	Document no	Issue 2
		Date of 1st issue	2015-05-13
		Issued by	MR
		Approved by	DGMS
		Revised status	01
		Revised date	2024.02.22

i).

Subjects	Type of examination	Duration (hrs)	Pass marks
Marine Technology Electro	Written	03	50
Electronics & Power Electronics	Practical & Oral test	1.5	65 & After evaluation of the Examiner
Electronics & Equipments	Written	03	50
Marine Electrical Power & machines	Practical & Oral test	1.5	65& After evaluation of the Examiner
Automation & Controls	Written	03	50
Measurements & Instrumentation	Practical & Oral test	1.5	65& After evaluation of the Examiner
Advanced Pneumatic, Electro Pneumatic & Electro Hydraulic systems	Written	03	50

MSS	Code of Practice <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

Advanced Pneumatic, Electro Pneumatic systems	Practical & Oral test	1.5	65& After evaluation of the Examiner
Advanced Hydraulic, Electro Hydraulic systems	Practical & Oral test	1.5	65& After evaluation of the Examiner
Marine Electrical Practice – High Voltage & Low Voltage	Written	03	50
Computer networking	Practical & Oral test	1.5	65& After evaluation of the Examiner
Automation control & instrumentation	Practical & Oral test	1.5	65& After evaluation of the Examiner
Electrical Engineering Drawing	Written	03	50
Marine Legislation, Electrical Survey, ISM- SMS & ISPS	Written	03	50
Electrical Simulator (Combined with Engine	Refer the guide line for Engine Simulator courses		

MSS	Code of Practice <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

simulation)	
-------------	--

- ii) Examination and assessment of the following subjects shall be conducted by the approved training institute at DGMS office and DGMS will monitor the complete process;

Subjects	Type of examination	Duration (hrs)	Pass marks
General Marine Electrical and Electronic Engineering knowledge	Written	03	50
Marine Automation and control Engineering knowledge	Written	03	50
Oral Examination	Oral,	& After evaluation of the Examiner	

- e)i) Candidates who have successfully completed the National Diploma in Technology (NDT Electrical Engineering or Electronic Engineering) 03 years programme and one year training period only at Colombo Dockyard and SLPA with 12 months approved sea going service shall follow the subjects as specified in (d) (i) & (ii);
- ii) The candidates who have completed National Diploma in Engineering Sciences 04 years programme (NDES Electrical Engineering "power"; Electronic Engineering and trained only at Colombo Dockyard and SLPA with 12 months approved sea going service shall follow the subjects as specified in above (d) (i) & (ii).
- f) Candidates shall have minimum of 85% of class room attendance to be eligible to sit for the final examination.
- g) A candidate may have 3 consecutive appearing for the Oral examination at intervals of at least 02 weeks between each sitting if the former sitting is unsuccessful. The examiner may request the candidate to have further 03 months of approved sea going experience or to repeat the preparatory

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

course prior to the 04th attempt if the candidate is unsuccessful in first three appearing.

- h) The written examination and oral examination papers in above d) (ii) must be passed within 3 years prior to the date of the issuance of Certificate of Competency. These papers(in d) (ii)) must be passed in a single attempt. If failure in one or both papers(in d) (ii)), candidate will need to retake both of the sections again.
The results of the academic subjects(above d (i)) will be valid only for five(5) years.

7.4 Electro Technical Officer Cadet Training Program

7.4.1 Entry criteria

- a) Shall not be less than 18 years of age at the time of enrolment; Shall produce a birth certificate¹⁸;
- b) posses a valid medical fitness certificate and a valid eye sight test certificate as required by Regulation I/9 and Section A-I/9 of the STCW 2010¹⁹
- c) i) One pass in GCE A/L or equivalent acceptable to the DGMS in maths or bio or Technological stream, one pass must be of mathematical subject or physics and a credit pass in English at GCE O/L examination or equivalent qualification acceptable to the DGMS²⁰; or
 i) Have Six passes at GCE O/L examination or equivalent acceptable to the DGMS including credit passes in Mathematics, Science and English²¹; and Have attempted GCE A/L examination in maths or bio or Technological stream (no need of pass the subjects) or equivalent qualification acceptable to the DGMS; and successfully completion of an approved foundation course which must not be less than 6 months in duration.

¹⁸ A passport can be accepted as proof of identity

¹⁹ Foreign students may obtained valid medical fitness certificates and eye sight test certificates by approved medical practitioners of the national administration

²⁰ The equivalent educational qualifications means educational qualifications accepted by Ministry of Education as equivalent to GCE O/L

²¹ The equivalent educational qualifications means educational qualifications accepted by Ministry of Education as equivalent to GCE O/L

MSS	Code of Practice <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

7.4.2 The training programme

- a) Shall include minimum of 12 months sea going service in total on board a ship of propulsion power of 750kW or more;
- b) i) the individual approved training institutes shall design training programmes to suit their requirements and conditions as per the guild –lines from the DGMS;and
ii) shall accommodate the sea phase not before the 3rd month from the commencement of the training programme and approved training programme shall lead the candidate to achieve the standard of competence as specified in the STCW table A III/6.
- c) The preparatory course for Electro – Technical Officer in charge of Electrical, Electronic and Control engineering responsibilities on seagoing ships of main propulsion power of 750kW or more shall be conducted during the last four months of the training programme.

7.4.3 Course, Examinations and assessments procedure

The course content and the duration, to achieve the minimum standards of competence shall be as per the DGMS approved core syllabus.

- a) Examinations and assessments shall be conducted as stipulated in the approved training programme of the individual training institute.
- b) To be eligible to sit for the final examination candidates shall have at least 85% of class room attendance

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

Section A-III/7

8.0 Mandatory minimum requirements for certification of electro- technical ratings

Every candidate for certification of Electro-Technical Rating according to the STCW Regulation III/7, to work on-board ships of propulsion power 750kW or more, shall be required to demonstrate the required standard of competency in accordance with the Section A-III/7 and the table A-III/7 of the STCW Code.

8.1 Eligibility criteria

- a) Shall not be less than 18 years of age.
Shall produce the birth certificate²²;and
- b)
 - i) An eyesight standards test certificate confirming the standards specified in the table A-I/9 of the STCW Code; and
 - ii) A medical and physical fitness test certificate confirming the standards specified in the table B-I/9 of the STCW Code;and
 - iii) Have completed approved sea going service including not less thsn 12months training and experience; or
 - iv) Have completed approved training, including an approved period of sea goning service which shall not be less than 6 months; or
 - v) Qualifications that meet the technical competencies in table A-III/7 and an approved period of sea going service, which shall not be less than 3 months; and
- c) Meet the standard of competency in the table of Section A-III/7 of the STCW code;

²² A passport or a National Seafarer’s Identity Document can be accepted as proof of identity

MSS	Code of Practice <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

d) The chief examiner may consider seafarers to have met the requirements of sea service if candidate have served in a relevant capacity on board a ship for a period of not less than 12 months within the last 60 months preceeding the enter into force of STCW regulations(before 1 January 2012) and meet the standard of competence specified in section A-III/7 of the STCW code provided that each seafarer demonstrate his competence at an evaluation.

And;

f) Produce documentary evidence of having successfully completed the approved training in;

i) Personal Safety and Social Responsibility (Table A-VI/1-4 in STCW Code),

ii) Personal Survival Techniques (Table A-VI/1-1 in STCW Code),

iii) Fire prevention and Fire Fighting (Table A-VI/2 in STCW Code),

iv) Elementary First Aid (Table A-VI/1-3 in STCW Code),

(v) Seafarers with designated security duties (STCW Reg.VI/6 Para 4);

vi) Maritime English for support level

g)The“Letter of Eligibility” is valid only for two & half (2 ½)years.

8.2 Entry criteria for pre-sea training course for electro technical rating

a) shall be not less than 18 years of age at the time of the final assessment of the training programme and shall produce the the birth certificate ;and

b) shall have studied up to General Certificate of Education Ordinary Level (GCE O/L) or equivalent educational qualifications accepted by the Director General of Merchant Shipping²³;and

c) i) an eyesight standards test certificate confirming the standards specified in the table A-I/9 of the STCW Code;

²³ The equivalent educational qualifications means educational qualifications accepted by Ministry of Education as equivalent to GCE O/L

<h1 style="margin: 0;">MSS</h1>	<h2 style="margin: 0;">Code of Practice</h2> <p style="margin: 0;"><i>Merchant Shipping Secretariat</i></p>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

- i) A medical and physical fitness test certificate confirming the standards specified in the table B-I/9 of the STCW Code;

8.3 Course, examinations and assessments process

The course content and the time duration, to achieve the minimum standards of competence shall be determined as per the DGMS approved core syllabus.

- a) the pre-sea training course duration shall be at least 3 months excluding the ancillary courses mentioned in above 8.1 (f) (i) to (vi);
- b) Training institutes to conduct examinations and assessments to confirm the candidate obtained required relevant theoretical and practical knowledge specified in Table A-III/7 and Section B-III/7 of the Code;
- c) Minimum passing mark criteria of the each subject is to be 50%;
- d) Examinations and assessments shall be carried out by persons who are independent of direct involvement in conducting of lectures for the same course;
- e) Candidates shall have at least 85 % of attendance in the course to be eligible for the final examination.
- f) Examination and assessment of the following subjects(i) have been delegated to approved training institutes under the supervision of DGMS

i)

Subjects	Type of examination	Duration (hrs)	Pass marks
Electro Technology	Written	0.5	50
Electrical measurements and instrumentation	Written	0.5	50
	Practical & Oral Exam	1.0	After evaluation of the Examiner
Electrical workshop	Written	0.5	50

MSS	Code of Practice <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22

	Practical & Oral Exam	01	After evaluation of the Examiner
Electrical power and machines	Written	0.5	50
Electronics	Written	0.5	50
Modern Technology	Written	0.5	50

ii) Examination and assessment of the following subjects shall be conducted by the DGMS;

Subjects	Type of examination	Duration (hrs)	Pass marks
Marine Electrical Knowledge (Electrical/Electronics/Controls/Automation)	Combination of MCQ and written	02	50

g) A candidate may have 3 consecutive appearances for the Oral examination at intervals of at least 02 weeks between each appearance if the former attempt is unsuccessful. The examiner may request the candidate to have further 03 months of approved sea going experience or to follow the same pre-sea training course partially or completely or a preparatory course prior to the 04th attempt if the candidate is unsuccessful in first three appearances.

h) The written examination in above (f)(ii) shall be passed within 5 years prior to the date of the issuance of Certificate of Competency.

i) The results of the academic subjects (in above f(i)) will be valid only for five (5) years.

8.4 Exemptions and limitations

Seafarers having approved sea going service on seagoing ships of less than 750 Kw or special category ships may be issued with a Certificate of Proficiency with the limitations considering the special requirements of the

<h1>MSS</h1> <h2>Code of Practice</h2> <p>Merchant Shipping Secretariat</p>	Document no	Issue 2
	Date of 1st issue	2015-05-13
	Issued by	MR
	Approved by	DGMS
	Revised status	01
	Revised date	2024.02.22

trade, type of the ship and availability of machineries in the vessel subjected to discretion of the examiner. (Name, Address and Contact Details of the Company) Annex B

FORM OF TESTIMONIAL FOR SEA-SERVICE (ENGINEERS)
(For Ministry of Shipping Examination purpose only)

This is to certify that the following is full and true statement of sea service performed by Mr/Ms _____ under my supervision on M.V./S.S. _____ Official No. _____ Port of Registry _____

Period of Service		Rank of Officer and Actual Seniority On Watch	Type of Main Engines, and Boilers, Single or Twin Screw KW	Nature of Duties (For appropriate description see below)
From	To			

During the whole period stated above, this Engineer Officer was on articles of agreement.

No. of days actual spent at Sea: _____

Official Stamp of the Ship with kW power or BHP

Signature of Master or Engr. Suptd.

Signature of Chief Engineer Officer

(Name of Master or Engr. Suptd.)

(Name of Chief Engineer Officer)

Dated _____ at _____

DESCRIPTION OF DUTIES	
I. On fitter's work either by day or regular watch a) Within Main Engine and Boiler spaces b) Outside Main Engine and Boiler space c) On refrigerating or other machinery not essential to the propulsion of the vessel. d) On Auxiliary Engines separated from main propelling units, but worked in conjunction therewith. II. On regular watch on Main Engines as a) Senior in full charge. b) First Assistant. c) Second Assistant. III. On Regular watch on Main Boiler a) In-charge of all stoke holds b) In-charge of section or one stoke hold only. c) As Boiler Room Assistant.	IV. On Regular watch on Main Engines and Boilers Simultaneously a) Senior in full charge b) First Assistant. c) Second Assistant. In ships where watches are kept on other than tradition system of not less than eight out of each twenty four hours, a brief description of the duration and frequency of the watches should be given. Mention of periods on day work or on fitters' work by watch should be made. This is particularly applicable to vessels that. 1. Have a centralized control room; 2. Are fully or partly automated. 3. Have arrangement such as the engine room is unmanned for some part of the twenty-four hours.
NOTE: It is recommended that this form be used when the Engineer is reported on or when the Chief Engineer leaves the ship.	

MSS	Code of Practice <i>Merchant Shipping Secretariat</i>	<i>Document no</i>	Issue 2
		<i>Date of 1st issue</i>	2015-05-13
		<i>Issued by</i>	MR
		<i>Approved by</i>	DGMS
		<i>Revised status</i>	01
		<i>Revised date</i>	2024.02.22