
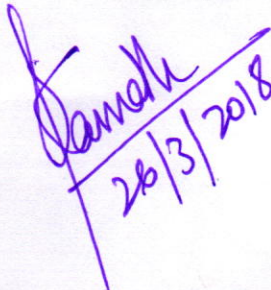


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|  | <u>DIRECTORATE GENERAL OF SHIPPING,</u> <u>GOVT. OF INDIA, MUMBAI</u> | IS/ISO Clause No. 7.5.1 |
| Ref.: QMS EACQP WPI-7.5-04B-03 | Subject: Refresher and Updating course for Revalidation of Certificate of Competency of Marine Engineer Officers issued under STCW 78 as amended (2010 Manila Amendments) | File No. ENG/ EXAM-CIRC/ 25(01)/2017(Pt) |
| Approved by the Director General of Shipping & Special Secretary to the Govt. of India. | Engineering Circular No. 143 of 2018 | Date: 26.03.2018 |

1. Introduction.

- (i) The International Maritime Organization has effected major amendments in the year 1995 and 2010 to the International Convention on Standards of Training Certification, and Watch keeping for Seafarers, 1978 (STCW, 1978) and both amendments have necessitated up-gradation of Certificate of Competency issued under respective previous amendments. The 2010 amendments of STCW 78, named as Manila amendments, had entered into force on 1st January 2012. The transition period for complete compliance with the 2010 Manila amendments was until 31st December 2016. This means, with effect from 1st January 2017, all holders of Certificate of Competency (CoC) issued under the provisions of STCW 78 and STCW 78 as amended in 1995 were required to hold COC which are fully compliant with STCW 2010 amendments.
- (ii) In order to give effect to the STCW 2010 amendments, the Government of India has notified the Merchant Shipping (STCW) Rules, 2014 on 30th July 2014.
- (iii) Noting that the Regulation I/11, Paragraph 4 and 5 of STCW 2010 amendments requires each Party to the STCW Convention to compare the standards of competence that are mandatory to be attained by the candidates holding CoC issued before 1st January 2017 under STCW1995 with those specified for the appropriate grade of CoC


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under STCW 2010 and shall determine the need for holders of such CoC to undergo appropriate *refresher and updating training or assessment for up-gradation*.

- (iv) Noting further that the Directorate had compared the standards of competence for the Engineer Officers certified under STCW 1995 for *up-gradation* to STCW 2010 requirements and has developed *Refresher and Updating Training Course* of 11 days and accordingly had issued STCW Circular No. 02 of 2012 on 12.01.2012. The various DGS approved institutes have been conducting the said 11 days course since February 2012 onwards for the purpose of upgrading of CoC of Engineer officers from STCW 1995 to STCW 2010.
- (v) The requirement of above stated 11 days *Refresher and Updating Training Course* has been incorporated in Merchant Shipping (STCW) Rules, 2014, under the heading “up-gradation and Revalidation of Certificates”(rule 14(5)).
- (vi) In addition to up-gradation of CoC from STCW 1995 to STCW 2010, the regulation I/11 paragraph 1 of STCW 78 as amended in 2010 prescribes requirements for revalidation of CoC for Masters, Officers and Radio Operators *every five years* in order to qualify for seagoing service. This requirement has been incorporated in Merchant Shipping (STCW) Rules, 2014 under Rule no. 14(1) and details are prescribed in TEAP manual Part A, page CH-II/73, Paragraph 2 under the heading “*Revalidation of certificate of competency*”, which states that a CoC shall normally be revalidated for a period of *five years* from the date of completion of Refresher and Updating training course or any additional training as may be specified under Rule 14 of Merchant Shipping (STCW) Rules, 2014. Further it states that if such training course was completed *within six months prior to the date of expiry* of CoC then the validity of that CoC can be extended for a period of *five years from the date of the expiry of CoC*.
- (vii) Realizing that “*The refresher and updating training Course for Revalidation*” of all those Certificate of Competencies issued under STCW 2010 is a requirement under rule 14(1) of M.S. STCW Rules 2014, and as specified in TEAP manual Part ‘A’

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page CH-II/73 in paragraph 2, a 3 day course of 24 hours has been developed by the Directorate in consultation with Industry. This course has been developed taking clue from the rule 14(4) of M.S. (STCW) rules 2014 and regulation I/11(6) of STCW 78 as amended in 2010 to include changes in relevant national and international regulations concerning the safety of life at sea (SOLAS), security and protection of marine environment and updating of the standard of competence concerned. The syllabus of this course has been formulated and attached as Annexure-I.

2. Applicability of the Refresher and Updating training Course for revalidation:

This course is applicable to all those Engineer Officers (operational level and Management Level) whose CoC have already been issued in compliance with STCW 2010 amendments and aspiring to revalidate their CoC. Such engineer officers have to satisfactorily complete the three days training course in *refresher and updating training course for revalidation* in a DGS approved institute conducting the course.

3. Procedure for Revalidation of Marine Engineer Officers COC: All of the following need to be fulfilled for revalidation of COC

- 3.1 Undertake *the Refresher and Updating training course for revalidation* (three days course) in an approved training institute conducting the course (Course completion certificate format- Annexure-II)
- 3.2 Meet the standards of medical fitness as prescribed in the Merchant Shipping (Medical Examination) Rules 2000 as amended and the STCW Code;
- 3.3 Complete the approved Refresher training course for Personal Survival Techniques (PST), Proficiency in Survival Craft and Rescue Boat other than Fast Rescue Boats (PSCRB), Fire Prevention and Fire Fighting (FPFF) /Advanced Fire Fighting (AFF), and the Medical first Aid (MFA) wherever such certificates are five years old.

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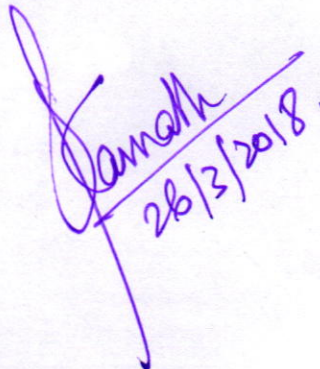
3.4 Establish continued professional competence as required under Regulation I/1 of STCW Convention and rule 14 of M.S (STCW) Rules 2014 by:

- (i) approved seagoing service, performing functions appropriate to the certificate held, for a period of at least twelve months in total during the preceding five years; or
- (ii) three months in total during the preceding six months immediately prior to revalidating; or
- (iii) having performed functions considered to be equivalent to the seagoing service required in paragraph 3.4 (i) above [e.g., (a) Full time technical surveyors for a period of at least Two Years with a maritime administration or with an organization recognized by the Indian maritime administration and engaged in work related to survey, inspection / certification of ships, examination of candidates for Certificate of Competency. Independent/individual surveyors, non-exclusive surveyors, undertaking part-time survey/inspection are not covered in this category (b) Full time Lecturers for a period of at least Two years at a DG approved training institutes who have been teaching revalidation courses/Preparatory Courses continuously for a period of two years at management level i.e. MEO Class-II and MEO Class-I. Institute should have conducted these courses and such faculty must have been engaged in imparting the course during the period and mere approval to conduct the course will not be acceptable (c) Full time Lecturers for a period of at least Three Years at a DG approved training institutes who have been teaching Pre Sea Four Year Course / One Year Pre-Sea Graduate Entry course / Refresher & up-dating training course for revalidation of engineer officers Certificate of Competency. Institute should have conducted these courses during the period and mere approval to conduct the course will not be acceptable (d) Full Time Technical Superintendents / Designated Persons (ISM Code) for a period of at least Three Years with companies who are responsible for the technical operation of vessels

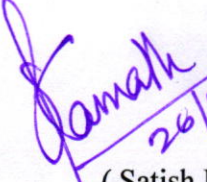
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of more than 750 KW (e) Any combination of above mentioned equivalent experiences to be calculated on pro rata to the years of service vis-à-vis the requirement], or

- (iv) Passing an approved test, i.e. Oral examination; or
 - (v) Successfully completing an approved training Course, i.e. preparatory Course of the respective grade or the next higher grade; or
 - (vi) having completed approved seagoing service, performing functions appropriate to the certificate held, for a period of not less than three months in a supernumerary capacity, or in a rank next below to that for which the certificate held is valid, immediately prior to taking up the rank for which it is valid.
4. On fulfillment of above requirements and submission of online application, Certificate of Competency shall be revalidated and revalidation sticker will be dispatched to candidate.
 5. On receipt of revalidation sticker, candidate will have to paste the same in his CoC.
 6. The requirements of this notice are to be complied in totality at the time of Revalidation of CoC which are already upgraded to 2010 STCW amendments and the requirements of this Refresher and Updating Training Course for revalidation of engineer officers will come into force with effect from 1st April 2018.
 7. The certificates of competency issued under STCW 78 as amended in 1995 or STCW 78 has to be revalidated in accordance with the relevant circulars issued prior applying for revalidation under this circular.
 8. The Maritime Training Institutes conducting the 11 days Refresher and upgrading training course are allowed to start the 3 day course and subsequently request for inspection within a month of starting the course.


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9. This issues with the approval of the Director General of Shipping and Special Secretary to the Government of India and supersedes all previous circulars on procedures for COC revalidation of marine engineer officers.


26/3/2018

(Satish Kamath)
Engineer & Ship Surveyor-cum-Dy. DG (Tech)

Encl: - Annexure-I
Annexure-II

To

1. All DGS approved Maritime Training Institutes.
2. The Principal Officer, MM D, Mumbai / Chennai / Kolkata / Kandla/ Kochi.
3. CS. / NA
4. Shipping Master, Mumbai / Chennai/ Kolkata.
5. INSA/ MASSA/FOSMA/ICCSA
6. Maritime Seafarers Unions

**Refresher and Updating training Course for revalidation of Certificate of Competency
(ALL ENGINEER OFFICERS) (EVERY 5 YEARS)**

Classroom course (3 Days)(24 Hrs)

| Sr. No. | TOPIC | FACULTY | DURATION (Hrs) |
|---------|---|-----------------------------------|----------------|
| 1. | Latest and Upcoming changes in IMO,ILO conventions and any other international convention related to shipping. <ul style="list-style-type: none">• Amendments in the last 5 years and future regulations to be covered.• Discussions of the amendments to SOLAS/MARPOL/STCW2010/ MLC2006/Loadline etc.• Discussions of the amendments and Changes to important codes recommendations and guidelines.• Overview and discussions on the effect and implementation of these amendments, affecting the survey and certification of ships. | Chief Engineer/ Master | 10 hrs |
| 2. | Overview of the M.S.Act and Important M.S. Rules and various DGS Circulars. <ul style="list-style-type: none">• Discussions of the M.S Act.• Overview and discussions on the various M.S Rules.• Overview and discussions on the various new DGS Circulars/ Orders/ and M.S Notices issued in the recent past covering important areas affecting the survey and certification of ships. | Chief Engineer/ Master | 2 Hrs |
| 3. | New Developments in Marine Engineering Systems (Ship Design, Automation and Materials) <ul style="list-style-type: none">• Latest developments in machinery installations on new ships being constructed in shipyards across the world, which may include green technologies and new technologies adopted for propulsion and auxillary systems.• Advancements related to improvement in design and materials of marine equipment.• Development in Automation/Instrumentation and Control systems. | Chief Engineer/ Class Surveyor | 3 hrs |

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| 4. | Latest and Upcoming changes in Class rules of Major IACS member Classification societies. <ul style="list-style-type: none"> • Changes in the regulations of survey and construction rules of Class societies (cargo and Passenger vessels) in the last 5 years and future regulations to be covered. (For example. ESP, CSR, UWILD and SRTP) • Discussions of the Changes in Class rules for survey and certification of existing vessels. • Discussions of the Changes to IACS Unified requirements and Unified Interpretations. • Overview and discussions on the effect and implementation of these changes, affecting the survey and certification of ships. | Chief Engineer/ Class surveyor | 2 hrs |
| 5. | PSC and FSI <ul style="list-style-type: none"> • Types of inspection, Concentrated Inspection Campaigns, • New Inspection Regime • Statistics on Deficiencies and Detentions. • Last PSC report of the administration to be discussed. • Areas for improvement to avoid detentions. | Chief Engineer/Master | 2 hrs |
| 6. | Machinery breakdown/personal injury Case Studies <ul style="list-style-type: none"> • Discussion to enhance personal and ship safety. • Discussion of Accident investigation for recent Major shipping casualties. • Discussion on Machinery breakdowns/ incidents and hazardous occurrences. • Group assignment on case studies and presentation. | Chief Engineer | 4 hrs |
| 7. | Assessment | | 1 hr |
| | TOTAL | | 24 hrs |

Note: In addition to the above, all Engineer Officers are advised to undertake, EVERY FIVE YEARS, refresher training in:

1. Personal Survival Techniques (PST),
2. Proficiency in Survival Craft and Rescue Boats (PSCRB),
3. Fire Prevention and Fire Fighting (FPFF),
4. Advanced Fire Fighting (AFF), and
5. Medical First Aid (MFA) and to ensure that these course certificates or their refresher training certificates, as applicable, are not more than 5 years old at any time when they are on board ships.

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NAME and ADDRESS of the D.G. Approved Training Institution

INDOS No:

Tel:

Fax:

E-Mail:

Certificate No: _____

This is to certify that _____

Date of Birth: _____ holder of C.D.C / P.P No. _____

Indian National Data base (INDos No.) _____

holder of Certificate of Competency No. _____ Grade _____

has successfully completed

**Refresher and Updating Training Course for
Revalidation of Marine Engineer Officers Certificate of Competency**

From _____ to _____ at this institution.

This course is approved by the Directorate General of Shipping (Details Overleaf).

This certificate is issued under the authority of the directorate General of Shipping, Ministry of Shipping, Government of India.

Date of Issue : _____

Colour Photograph
(35mm x 35mm)

Date of Expiry : _____
(Five Years from the date of Issue)

Office
Seal

Signature of Candidate

Name and Signature of Course Officer/
Authorised Signatory

Name and Signature of Head of the Institution

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| Sr. No. | TOPICS COVERED |
|---------|---|
| 1. | <p>Latest and Upcoming changes in IMO, ILO Conventions and other International Conventions related to shipping.</p> <ul style="list-style-type: none"> • Amendments in the last 5 years and future regulations to be covered. • Discussions of the recent amendments to SOLAS/MARPOL/STCW/ MLC2006/Load line etc. • Discussions of the amendments and Changes to important Codes/Guidelines/unified interpretations and recommendations. • Overview and discussions on the effect and implementation of the amendments into shipboard maintenance and the survey and certification of ships. |
| 2. | <p>Overview of the M.S. Act and Important M.S. Rules and various DGS Circulars.</p> <ul style="list-style-type: none"> • Discussions of the M.S Act. • Overview and discussions on the various M.S Rules. • Overview and discussions on the various new DGS Circulars/ Orders/ and M.S Notices issued in the recent past covering important areas affecting the survey and certification of ships. |
| 3. | <p>New Developments in Marine Engineering Systems (Ship Design, Automation and Materials)</p> <ul style="list-style-type: none"> • Latest developments in machinery installations on new ships being constructed in shipyards across the world, which may include green technologies and new technologies adopted for propulsion and auxiliary systems. • Advancements related to improvement in design and materials of marine equipment. • Development in Automation/Instrumentation and Control systems. |
| 4. | <p>Latest and Upcoming changes in Class rules of Major IACS member Classification societies.</p> <ul style="list-style-type: none"> • Changes in the regulations of survey and construction rules of Class societies (cargo and Passenger vessels) in the last 5 years and future regulations to be covered. (For example. ESP, CSR, UWILD and SRTP) • Discussions of the Changes in Class rules for survey and certification of existing vessels. • Discussions of the Changes to IACS Unified requirements and Unified Interpretations. • Overview and discussions on the effect and implementation of these changes, affecting the survey and certification of ships. |
| 5. | <p>PSC and FSI</p> <ul style="list-style-type: none"> • Types of inspection, Concentrated Inspection Campaigns, • New Inspection Regime • Statistics on Deficiencies and Detentions. • Last PSC report of the administration to be discussed. • Areas for improvement to avoid detentions. |
| 6. | <p>Machinery breakdown/personal injury Case Studies</p> <ul style="list-style-type: none"> • Discussion to enhance personal and ship safety. • Discussion of Accident investigation for recent Major shipping casualties. • Discussion on Machinery breakdowns/ incidents and hazardous occurrences. • Group assignment on case studies and presentation. |

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