

Rule 36 : Marine Engineer Officer Class II (Second Engineer Officer on ships powered by main propulsion machinery of 3000 kW propulsion power or more) (SEO)

1. An outline of sea going service, post sea education, training, examination and assessment is given in **Flow Diagram No. III/3** at the end of Section 3 of this Chapter.
2. The approved sea-going service required by Rule 36 (2)(b) of Chapter III of M.S. (STCW) Rules 2014 is not less than twelve months as Assistant Engineer Officer or Officer in Charge of an Engineering Watch on ships powered by main propulsion machinery of 750 kW propulsion power or more, after obtaining MEO Class IV Certificate of Competency.
3. The Chief Engineer Officer is to issue a watch keeping certificate in the prescribed format for the ship-board service performed by the Officer. The prescribed format is given in **Appendix III/2**.
4. Syllabuses of the approved post-sea education and training Courses as required by Rule 36(2)(c) of Chapter III of M.S. (STCW) Rules 2014 are given in **Appendix III/2A**.
5. Examination and assessment for the Certificate of Competency as Marine Engineer Officer Class II (Second Engineer Officer) will be held as follows :

5.1 Satisfactory completion of Part "A" of the examination in the following function and subjects :

PART "A"(Refer Appendix III/2A for Syllabus)

Function : Marine Engineering at management level.

1. Mechanics and Hydromechanics (one paper of 3 hours)
2. Thermodynamics and Heat Transmission (one paper of 3 hours)

5.2 Scrutiny of satisfactory completion of sea-going service by assessment centre at the MMDs.

5.3 Satisfactory completion of an approved 4 months Competency course.

5.4 Satisfactory completion of Part “B” of the written and oral examination and assessment comprising the following four functions and the six subjects thereunder.

PART “B” (Refer Appendix III/2A for syllabus)

Function : Marine Engineering at management level.

1. Marine Engineering Knowledge (General) (one paper of 2 hours)
2. Marine Engineering Knowledge (Motor or Steam) (one paper of 2 hours)
3. Oral examination.

Function : Maintenance & Repair at management level.

1. Marine Engineering Practice (one paper of 2 hours)
2. Oral examination.

Function : Electrical, Electronics and Control Engineering at management level.

1. Marine Electro technology (one paper of 2 hours)
2. Oral examination.

Function : Controlling operation of ship and care for persons on board at management level.

1. Naval Architecture (one paper of 2 hours)
2. Ship’s Safety, Environmental protection (one paper of 2 hours)
and Personnel care.
3. Oral examination.

6. Exemption to a candidate from a part of the examination and assessment in full or from any subject will be in accordance with one of the Sub-paras of Para 13 of Section III/9 of this Chapter.