

DISCUSSION OF QUALIFICATION REQUIREMENTS FOR STCW ENDORSEMENTS AS CHIEF ENGINEER OFFICER AND SECOND ENGINEER OFFICER ON VESSELS POWERED BY MAIN PROPULSION MACHINERY OF 3,000 kW/4,000 HP PROPULSION POWER OR MORE (MANAGEMENT LEVEL)

1. GENERAL. This enclosure provides guidance for engineering officers to qualify for International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, 1978, as amended (STCW) endorsements as Chief Engineer Officer (CEO) and Second Engineer Officer (2EO) on Vessels Powered by Main Propulsion Machinery of 3,000 kW/4,000 HP Propulsion Power or More (Management Level) in accordance with Section A-III/2 of the STCW Code, and 46 Code of Federal Regulations (CFR) 11.325 and 46 CFR 11.327.
2. SEA SERVICE, TRAINING, AND DEMONSTRATIONS.
 - a. As specified in 46 CFR 11.325, every candidate for endorsement as CEO on vessels powered by main propulsion machinery of 3,000 kW/4,000 HP Propulsion Power or More (Management Level) must provide evidence of:
 - 1) Not less than 36 months of service as officer in charge of an engineering watch (OICEW) on ships powered by main propulsion machinery of 750 kW/1,000 HP propulsion power or more; however, this period may be reduced to not less than 24 months if the applicant has served for not less than 12 months as Second Engineer Officer on ships powered by propulsion machinery of 3,000 kW/4,000 HP or more;
 - 2) Meeting the standard of competence specified in Section A-III/2 of the STCW Code. This may be done by completing the assessments in Enclosure (2);
 - 3) Satisfactory completion of approved training in:
 - i) Engine Resource Management (ERM), if not completed at the operational level;
 - ii) Leadership and Managerial Skills; and
 - iii) Management of Electrical and Electronic Control Equipment.
 - b. As specified in 46 CFR 11.327, every candidate for certification as a 2EO on vessels powered by main propulsion machinery of 3,000 kW/4,000 HP propulsion power or more (Management Level) must provide evidence of:
 - 1) Not less than 12 months of service as OICEW on vessels powered by main propulsion machinery of 750 kW/1,000HP or more; or 12 months of sea service as a Chief Engineer on vessels powered by propulsion machinery of vessels between 750 kW/1,000 HP and 3,000 kW/4,000 HP;
 - 2) Meeting the standard of competence specified in Section A-III/2 of the STCW Code. This may be done by completing the assessments in Enclosure (2); and

- 3) Satisfactory completion of approved training in:
 - i) ERM, if not completed at the operational level;
 - ii) Leadership and Managerial Skills; and
 - iii) Management of Electrical and Electronic Control Equipment.
 - c. An applicant for a CEO or 2EO endorsement without limitations for specific propulsion modes, vessel equipment, or vessel systems should complete every assessment in Enclosure (2), or an approved equivalent alternative. This will allow service on any steam, motor, or gas turbine vessel. An applicant for an endorsement limited to service on vessels of a specific propulsion mode or vessels that are not equipped with certain equipment or systems does not need to complete assessments that are not applicable to the propulsion modes or systems for which their endorsement will be valid. Applicability of individual assessments to propulsion modes, equipment, and systems is noted in Enclosures (2) and (3). Not performing these assessments will limit the endorsement accordingly.
 - d. Operational-level training and assessments are not required if the mariner holds or has previously held an STCW endorsement as OICEW for 750 kW/1,000 HP or more for the sought after propulsion mode. Operational-level assessments are also not required if the mariner holds or has previously held an STCW endorsement as CE or 2EO valid on vessels other than offshore supply vessels of 750 kW/1,000 HP or more issued after 1997 for the appropriate propulsion mode. Mariners who have not held an STCW endorsement as OICEW, 2EO, or CEO for 750 kW/1,000 HP or more issued after 1997 must also meet the requirements of 46 CFR 11.329 for qualification as OICEW.
 - e. Mariners holding an STCW endorsement as 2EO valid on vessels other than offshore supply vessels of 3,000 kW/4,000 HP or more who are raising the grade of their endorsement to CEO for 750 kW/1,000 HP or more for the same propulsion mode will not be required to submit assessments.
 - f. Demonstrations of competency should be performed on a vessel of at least 3,000 kW/4,000 HP with a manned or periodically unmanned walk-in engine room, generators independent of the main engine, and other independent auxiliaries. Since many vessels no longer have manned engine rooms, engine room maintenance with designated engine room operational experience may be substituted for watch keeping experience.
3. GRANDFATHERING AND TRANSITION PROVISIONS.
- a. Mariners who began training or service for an endorsement as CEO or 2EO before March 24, 2014, will not be required to provide assessments until January 1, 2017. Mariners who began the service or training for their endorsement after March 24, 2014, must provide evidence of meeting the standard of competence specified in Section A-III/2 of the STCW Code by completion of the assessments in Enclosure (2), or an approved equivalent alternative.

b. As specified in 46 CFR 11.325(b) and 11.327(b), for endorsements to be valid after December 31, 2016, mariners must provide evidence of successful completion of the following approved training:

- 1) ERM, if not completed at the operational level;
- 2) Leadership and Managerial Skills; and
- 3) Management of Electrical and Electronic Control Equipment.

4. RENEWAL OF ENDORSEMENT.

a. In order to renew an endorsement as CEO or 2EO, an applicant must meet the general requirements for renewal of a merchant mariner credential found in 46 CFR 10.227. In addition, as specified in 46 CFR 11.325(b) and 11.327(b), for renewal of an STCW endorsement as CEO or 2EO to be valid on or after January 1, 2017, each candidate must provide evidence of successful completion of the following approved training:

- 1) ERM, if not completed at the operational level;
- 2) Leadership and Managerial Skills; and
- 3) Management of Electrical and Electronic Control Equipment.

b. Applicants for a renewal of an STCW endorsement as CEO or 2EO must provide evidence of maintaining the standard of competence for BT (46 CFR 10.302) and Advanced Firefighting (46 CFR 11.303).