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produce a certificate as qualified member of the engine department to the shipping commissioner, United States Collector or Deputy Collector of Customs, or master before signing articles of agreement.

(b) No certificate as qualified member of the engine department is required of any person employed on any unrigged vessel, except seagoing barges.

§ 12.15-3 General requirements.

(a) A qualified member of the engine department is any person below the rating of licensed officer and above the rating of coal passer or wiper, who holds a certificate of service as such qualified member of the engine department issued by the Coast Guard or predecessor authority.

(b) For purposes of administering this part the rating of *assistant electrician* is considered a rating not above that of coal passer or wiper, but equal thereto.

(c) An applicant, to be eligible for certification as qualified member of the engine department, shall be able to speak and understand the English language as would be required in the rating of qualified member of the engine department and in an emergency aboard ship.

(d) After July 31, 1998, an STCW endorsement valid for any period on or after February 1, 2002, will be issued or renewed only when the candidate for certification as a qualified member of the engine department also produces satisfactory evidence, on the basis of assessment of a practical demonstration of skills and abilities, of having achieved or maintained within the previous 5 years the minimum standards of competence for the following 4 areas of basic safety:

(1) Personal survival techniques as set out in table A-VI/1-1 of the STCW Code (incorporated by reference in § 12.01-3).

(2) Fire prevention and fire-fighting as set out in table A-VI/1-2 of the STCW Code.

(3) Elementary first aid as set out in table A-VI/1-3 of the STCW Code.

(4) Personal safety and social responsibilities as set out in table A-VI/1-4 of the STCW Code.

(e) After July 31, 1998 an STCW endorsement that is valid for any period on or after February 1, 2002, will be issued or renewed only when the candidate for certification as a qualified member of the engine department meets the standards of competence set out in STCW Regulation III/4 and Section A-III/4 of the STCW Code, if the candidate will be serving as a rating forming part of a watch in a manned engine-room, or designated to perform duties in a periodically unmanned engine-room, on a seagoing ship driven by main propulsion machinery of 750 kW [1,000 hp] propulsion power or more.

[CGFR 65-50, 30 FR 16640, Dec. 30, 1965, as amended by CGD 95-062, 62 FR 34538, June 26, 1997; USCG-2000-7790, 65 FR 58458, Sept. 29, 2000; USCG-1999-5610, 67 FR 66069, Oct. 30, 2002]

§ 12.15-5 Physical requirements.

(a) An applicant for a certificate of service as a qualified member of the engine department shall present a certificate of a medical officer of the United States Public Health Service, or other reputable physician attesting that his eyesight, hearing, and physical condition are such that he can perform the duties required of a qualified member of the engine department.

(b) The medical examination for qualified member of the engine department is the same as for an original license as engineer, as set forth in § 10.205 of this subchapter. If the applicant is in possession of an unexpired license, the Officer in Charge, Marine Inspection, may waive the requirement for a physical examination.

(c) An applicant holding a certificate of service for a particular rating as qualified member of the engine department and desiring certification for another rating covered by this same form of certificate may qualify therefor without a physical examination unless the Officer in Charge, Marine Inspection, finds that the applicant obviously suffers from some physical or mental infirmity to a degree that would render him incompetent to perform the ordinary duties of a qualified member of the engine department. In this event

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the applicant shall be required to undergo an examination to determine his competency.

[CGFR 65-50, 30 FR 16640, Dec. 30, 1965, as amended by USCG-1998-4442, 63 FR 52189, Sept. 30, 1998; USCG-2004-18884, 69 FR 58343, Sept. 30, 2004; USCG-2004-18884, 69 FR 68089, Nov. 23, 2004]

§ 12.15-7 Service or training requirements.

(a) An applicant for a certificate of service as qualified member of the engine department shall furnish the Coast Guard proof of qualification based on six months' service in a rating at least equal to that of wiper or coal passer.

(b) Training programs approved by the Commanding Officer, National Maritime Center, may be substituted for the required service at sea in accordance with the following:

(1) A graduate of a school ship may be rated as qualified member of the engine department upon satisfactory completion of the course of instruction. For this purpose, *school ship* is interpreted to mean an institution which offers a complete course of instruction, including a period of sea training, in the skills appropriate to the rating of qualified member of the engine department.

(2) Training programs other than those classified as a school ship may be substituted for up to one-half of the required service at sea.

(c) To qualify to receive an STCW endorsement for service as a "rating forming part of a watch in a manned engine-room or designated to perform duties in a periodically unmanned en-

gine-room" on a seagoing vessel driven by main propulsion machinery 750 kW [1,000 hp] propulsion power or more, an applicant shall prove seagoing service that includes training and experience associated with engine-room watchkeeping and involves the performance of duties carried out under the direct supervision of a qualified engineer officer or a member of a qualified rating. The training must establish that the applicant has achieved the standard of competence prescribed in table A-III/4 of the STCW Code (incorporated by reference in § 12.01-3), in accordance with the methods of demonstrating competence and the criteria for evaluating competence specified in that table.

[CGD 80-131, 45 FR 69241, Oct. 20, 1980, as amended by CGD 95-072, 60 FR 50460, Sept. 29, 1995; CGD 95-062, 62 FR 34538, June 26, 1997; CGD 95-062, 62 FR 40140, July 25, 1997; USCG-1998-4442, 63 FR 52189, Sept. 30, 1998; USCG-1999-5610, 67 FR 66069, Oct. 30, 2002]

§ 12.15-9 Examination requirements.

(a) Each applicant for certification as a qualified member of the engine department in the rating of oiler, watertender, fireman, deck engineer, refrigeration engineer, junior engineer, electrician, or machinist shall be examined orally or by other means and only in the English language on the subjects listed in paragraph (b) of this section. The applicant's general knowledge of the subjects must be sufficient to satisfy the examiner that he is qualified to perform the duties of the rating for which he makes application.

(b) List of subjects required:

Subjects	Machinist	Refrigerating engineer	Fireman/Watertender	Oiler	Electrician	Junior engineer	Deck engineer
1. Application, maintenance, and use of hand tools and measuring instruments	X	X	X	X	X	X	X
2. Uses of babbitt, copper, brass, steel, and other metals	X	X	X	X	X	X	X
3. Methods of measuring pipe, pipe fittings, sheet metal, machine bolts and nuts, packing, etc	X	X	X	X	X	X	X
4. Operation and maintenance of mechanical remote control equipment	X	.....	X	X	X	X	X
5. Precautions to be taken for the prevention of fire and the proper use of firefighting equipment	X	X	X	X	X	X	X
6. Principles of mechanical refrigeration; and functions, operation, and maintenance of various machines and parts of the systems .....	.....	X	.....	X	.....	X	.....
7. Knowledge of piping systems as used in ammonia, freon, and CO ₂ , including testing for leaks, operation of bypasses, and making up of joints .....	.....	X	.....	.....	.....	X	.....