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	Marine Safety	Approved by: AMSP	Revision No: 04	Page: 1 of 3
TP 2293 E		<i>THE EXAMINATION AND CERTIFICATION OF SEAFARERS</i>		

CHAPTER 43 - ENGINE-ROOM ASSISTANT

PART I - GENERAL REQUIREMENTS OF APPLICANTS

- 43.1 (1) Every applicant for a certificate as Engine-Room Assistant shall:
- (a) obtain a medical certificate prescribed by the Crewing Regulations;
 - (b) obtain a certificate of completion for each of the following Marine Emergency Duties Courses, set out in TP 4957, from a school listed in TP 10655:
 - (i) Basic Safety (A1);
 - (ii) Survival Craft (B1); and
 - (iii) Marine Fire Fighting (B2);
 - (c) obtain a First Aid Basic (Emergency) Certificate, set out in TP 13008; and
 - (d) pass an oral examination.
- (2) The service required by an applicant for examination for an Engine-Room Assistant Certificate is 12 months, service as follows:
- (a) six months service, with:
 - (i) a minimum of three months as an engine-room watch rating or engine-room assistant in the engine room of a steamship or motor ship, or in the boiler room of a steamship; and
 - (ii) the remaining time made up of any combination of the service, subject to any time limitations set out in Chapter 33, section 33.1(2); and
 - (b) by acquiring:
 - (i) six months service as an engine-room watch rating or an engineer assistant on watch on a steamship of not less than 225 kW propulsion power; or
 - (ii) six months in the successful completion of a course in practical skills for marine engineers, set out in TP 8911, at a school listed in TP 10655.
- (3) Not in use.

PART II - EXAMINATION

- 43.2 (1) For an Engine-Room Assistant Certificate, there shall be an oral examination to determine that the applicant possesses sufficient knowledge and skills to perform, with safety, the duties of an engine-room assistant, including those duties related to the safe operation and running maintenance of machinery.
- (2) The examination referred to in section 43.1(1)(d) shall consist of 10 questions on any of the subjects referred to under the "Column" heading in section 43.4..

PART III - VALIDITY OF CERTIFICATE

- 43.3 The certificate as an Engine-Room Assistant is valid as assistant to the engineer on watch as required by the Crewing Regulations.

PART IV - SYLLABUS OF EXAMINATION

43.4 Oral Examination

ITEM	COLUMN
1.	Personal Safety Firefighting, basic first aid, personal survival techniques, health hazards and personal safety.
2.	Communications Understanding orders and being understood in matters relevant to the applicant's duties.
3.	Watchkeeping Engine-room watchkeeping procedures, methods of recording events, and carrying out a watch routine.
4.	Safe Working Practices Safe working practices as related to engine-room operations.
5.	Terminology Terms used in machinery spaces and the names of machinery and equipment relative to the applicant's duties.
6.	Environmental Protection Basic environmental protection procedures.
7.	Communication Systems The use of appropriate internal communication systems.
8.	Escape Routes Typical escape routes from machinery spaces.

9.	Alarms Engine-room alarm systems and distinguishing between various alarms, with special reference to fire extinguishing gas alarms.
10.	Location of Fire Equipment Typical location and use of firefighting equipment in the machinery spaces.
11.	External Stops Typical location and operation of external emergency machinery stops and fuel valve extensions.
12.	General The basic functions, operations and running maintenance of main propulsion and auxiliary machinery.
13.	Instruments Reading indicating instruments related to watchkeeping duties and understanding the significance of the readings.
14.	Tools Use of hand tools and portable power tools and the safety precautions to be observed in their use.
15.	Pumping Systems The function, operation and maintenance of the various types of pumping systems.
16.	Environmental Protection Equipment The operation and maintenance of environmental protection equipment.
17.	Supervision Understanding and being understood by the engineer in charge of the watch.
18.	Boilers Safe operation and emergency stopping of boilers; maintaining correct water levels and steam pressures.