CHAPTER 41 - ABLE SEAMAN

PART I - GENERAL REQUIREMENTS OF APPLICANTS

- 41.1 (1) Every applicant for a certificate as Able Seaman shall:
 - (a) obtain a medical certificate prescribed by the Crewing Regulations;
 - (b) obtain certificates of completion from a school listed in TP 10655 for the following Marine Emergency Duties Courses, set out in TP 4957:
 - (i) Basic Safety (A1);
 - (ii) Survival Craft (B1); and
 - (iii) Marine Fire Fighting (B2)
 - (c) obtain a First Aid Basic (Emergency) Certificate, as set out in TP 13008; and
 - (d) pass an examination.
 - (2) The service required by an applicant for a certificate as Able Seaman is 36 months on board a ship in a deck-related capacity.

PART II - EXAMINATION

41.2 The applicant shall undergo a written, oral and practical examination in general seamanship.

PART III - VALIDITY OF CERTIFICATE

41.3 The certificate for Able Seaman is valid as an able seaman on any vessel making any voyage and also has validity as an additional person forming part of the deck watch, provided he/she fully meets the eyesight requirements prescribed by the Crewing Regulations.

PART IV - SYLLABUS OF EXAMINATION

41.4 General Seamanship

ITEM	COLUMN
1.	Navigation Identification of fog signals and vessel types under the Collision Regulations; identification of navigational aids and their reporting in terms of degrees on the bow; compass markings in the 360-degree notation and cardinal points of the compass; steering orders and responses; the effect of magnetic material on the magnetic compass; controls and operation of the automatic helmsman; effect of wind, draft and trim on steering.
2.	Ground Tackle Anchors and associated equipment, including: names of parts of stocked and stockless anchors; chain cable and shackles; chain cable markings and reporting; cable stowage; fittings between cable locker and hawse pipe; common terms used in anchor work; terms associated with lead of cable; anchoring in an emergency; heaving up and securing cable; terms pertaining to a vessel at anchor; anchoring in shallow or deep water.
3.	Mooring Use, care and storage of mooring lines, including: types of lines used for mooring and their characteristics; naming of various mooring lines and orders; making fast on shore bollards being used by another ship; types of fairleads and mooring leads, their construction, naming and use; tending of mooring lines on rise and fall of tide and in locks; use of rat-guards, fenders, heaving lines, rope and chain stoppers; correct stowage of mooring lines and gear for sea; use of moorings on the bight and doubling up; use of mooring wire rope reels; use of, handling and securing of insurance wire; use of, handling and securing of towing wires.
4.	Deck Machinery Use and care in use of: electrical, hydraulic and steam winches, ordinary and self-tensioning; windlasses and capstans, including brakes; derrick and topping lift winches; electrical and hydraulic deck cranes; self-unloading machinery; hatch opening systems; engine telegraphs; main and emergency steering gears; valves and drain cocks.
5.	Cargo Preparation of cargo compartments for bulk, general or liquid bulk cargoes, namely: cleaning of holds, tanks, bilges, bilge drain wells or strum boxes; bilge pumping arrangements; dunnaging of holds and protection of bilges; gas freeing, and cleaning tanks and tank lines; valve opening and closing procedure; testing lines, pumps and valves; familiarity with commonly used terms.
6.	Safety Working Practices Safe practices in working cargo, namely: keeping decks and coamings uncluttered; following proper methods of stripping hatches and hatch-closing appliances; use of guard rails; battening down and securing cargo by shores, tomes or lashings; entering or working in tanks or confined spaces; use of warning signs, notices and signals; restricting the use of matches, smoking, open lights, portable lights and electric cables and ships W/T or R/T installations when working or transferring inflammable liquids; fitting bonding cables, towing wires, spark arresters, scupper plugs, drip trays and hose connections; opening cargo tanks, Butterworth and ullage hatches, and the use of flammable traps; use of non-sparking tools; readiness of breathing apparatus.

	1
7.	Staging The rigging of stages and boatswain's chair, their uses and safety practices followed in their use.
8.	Ladders and Gangways Preparing and rigging pilot ladders and gangways, including: stowing arrangements; arrangement when bunkering and storing; tending on rise and fall of tide; safety nets, their rigging and uses.
9.	Joining Ship Responsibilities of a seaman on joining a ship, with emphasis on: familiarization with general layout of the ship; location details and working of all deck machinery; familiarization with cargo gear, closing appliances; sounding pipes, air pipes and scuppers; familiarization with the scheme for identifying lines and valves; location, details of bunkering connection and procedure; familiarization with the ventilation system; location of bilge lines, drain wells and non-return valves; general arrangement of rudders and propellers.
10.	Terminology Shipboard terminology, including: names and functions of various parts of a ship; arrangement and responsibilities of different departments at sea, at anchor and in port; general authorities, responsibilities and duties of the various members of the crew.
11.	Flags Use of national and courtesy ensigns, house flags, single-letter flag signals, flags at half and full mast, dipping of ensign to men of war.
12.	Fibre Ropes Make up of natural and synthetic fibre ropes, with reference to: fibre used, yarns, number of strands, lay and core, and their measurement.
13.	Knots and Splices Basic knots and their uses, gripping, splicing, seizing, whipping, raking, worming and parcelling.
14.	Wire Ropes Make up of wire ropes, including: crucible, flexible and extra-flexible wires; the heart and its function; coiling and uncoiling a wire rope; the preservation, treatment and measurement of standing and running rigging; splicing and the use of marline spike, vice and seizing.
15.	Strength of Ropes Strength of ropes and wires, namely: breaking strength, safe working load and proof load, without any calculations; elasticity and relative strengths of different types of ropes and wires.
16.	Blocks and Tackle Construction, use and care of blocks and purchases, including: names of parts; understanding of when they are used to advantage or disadvantage; types of blocks and purchases; reeving of purchases; friction and power gained, without any calculations.
17.	Standing and Running Rigging Standing and running rigging and their uses, including: names and construction; main parts of a derrick and attachments; main parts of a mast and attachments; rigging of lifelines and catwalks.
18.	Heavy Lift Tackle Rigging booms for single and union work and heavy lifts, including: positioning of guys and preventers; a general appreciation of the stresses on various parts of a boom system during working; topping and lowering procedure, and correct use of cleats, snatch and lead blocks.

19.	Deck Cranes Use of deck cranes; safe working practices; lubrication and safe operation; hand signals and communications.
20.	Cargo Care Care of cargo with relation to cargo sweat, ship sweat, use of ventilation, and reading of cargo thermometer and hygrometer.
21.	Working Barges and Scows Securing barges and scows for towing alongside, astern or pushing ahead, with precaution against chafing and girding.
22.	Ship's Markings Ship's markings and reading and recording measurements.