

SYLLABUS DECK - D

STCW Reg - II/3 AND II/2

MASTER - NEAR-COASTAL - SHIPS UNDER 500GT

CHIEF MATE - NEAR-COASTAL - SHIPS UNDER 3,000GT

CHIEF MATE - UNLIMITED - SHIPS UNDER 3,000GT

Candidates should demonstrate the ability to apply the knowledge outlined in this oral examination syllabus and oral examination syllabus **Deck- E**, by the appropriate responses, anticipations and reactions to a range of routine, non-routine and contingency scenarios as presented by the examiner, from the perspective of **MASTER - Near-Coastal - Ships under 500gt** or **CHIEF MATE - Unlimited - Ships under 3,000gt (STCW Reg - II/2)** or **CHIEF MATE - Near-Coastal - Ships under 3,000gt as appropriate.**

TOPIC 1 NAVIGATION

1 Plan and Conduct Safe Navigation

- a) demonstrate an ability to undertake voyage planning, taking into consideration:
 - i) restricted waters;
 - ii) meteorological conditions, through the interpretation of a synoptic chart, and to forecast local area weather, the characteristics of various weather systems;
 - iii) restricted visibility;
 - iv) the requirements of ship routing and mandatory reporting systems;
 - v) reporting in accordance with ship reporting systems;
- b) limitations of electronic chart systems including ECDIS and RCDS navigational chart systems;
- c) port radio information services: knowledge of the types of service available to aid vessels entering ports, berthing, VTIS and VTS services, as indicated in The Admiralty List of Radio Signals - Vessel Traffic Services, Port Operations and Pilot Stations;
- d) maritime buoyage systems - IALA region 'A'.

2 Establish & Maintain Safe Watchkeeping Arrangements and Procedures

- a) a thorough knowledge of the principles of navigational watchkeeping at sea, including under pilotage, and watchkeeping at anchor and in port;
- b) a thorough knowledge of the content, application and intent of the International Regulations for Preventing Collisions at Sea;
- c) knowledge of principles of establishing a safe engineering watch at sea, anchor and in port.

3 Compasses

- a) compasses commonly fitted on board the ships concerned - variation and deviation, causes and effects, siting of other equipment with reference to magnetic compasses;
- b) knowledge of the purpose of correctors/corrections.

4 Manoeuvre the Ship and Operate Small Ship Power Plants

- a) anchoring and working anchors and cables in all circumstances;
- b) proper procedures for berthing and unberthing;
- c) knowledge of factors affecting safe manoeuvring and handling;
- d) knowledge of the operation of small ship power plants and auxiliaries.

TOPIC 2 CARGO HANDLING AND STOWAGE

1 Cargo Handling, Stowage, Securing and Care

- a) knowledge of the regulations and recommendations affecting cargo handling, stowage, securing and carriage;
- b) use of the IMDG Code.

TOPIC 3 RESPONSE TO EMERGENCIES

1 Response to Navigational Emergencies

- a) action to be taken when disabled and in distress, abandoning ship, survival procedure, use of rockets and rocket apparatus;
- b) measures to be taken following collision, grounding, heavy weather damage and leaks including the possibility of beaching a ship;
- c) towing and being towed;
- d) knowledge of emergency steering systems;
- e) knowledge of search and rescue procedures, assisting a ship or aircraft in distress, rescuing the passengers and crew of a disabled ship or ditched aircraft;
- f) use of the International Aeronautical and Marine Search and Rescue (IAMSAR) Manual (Volume III), distress and emergency signals;
- g) Search and Rescue (SAR) plans for passenger ships;
- h) emergency communications within the GMDSS regulations.

2 Response to Other Emergencies

- a) methods of dealing with fire onboard ship; prevention of fire at sea and in port;
- b) use and maintenance of fire-fighting equipment, fire dampers, doors and screens, and detection equipment;
- c) the organisation and direction of fire-fighting drill training;
- d) launch and manage survival craft, recover rescue boats at sea;
- e) the organisation and direction of life-boat and life-raft drill training;
- f) understand the fundamental actions to be taken in the event of partial loss of intact buoyancy;
- g) precautions for the protection and safety of passengers in emergencies;
- h) appreciation of action to be taken when emergencies arise in port;
- i) sources of medical information available.

TOPIC 4 ON BOARD SHIP OPERATIONS

1 Pollution Prevention Requirements

- a) precautions to be taken to prevent pollution of the marine environment as required by the MARPOL Conventions, including Restricted Areas;
- b) take appropriate action in response to pollution incidents onboard and found at sea;
- c) knowledge of the contents of the SOPEP manual, Garbage Management Plans, and antipollution equipment;
- d) master's duties, obligations and liabilities, including the keeping of records.

2 Seaworthiness of the Ship

- a) precautions to be taken before the onset of heavy weather, management of small ships in heavy

- weather, handling a disabled ship;
- b) understand the fundamentals of water tight integrity;
- c) preparation for dry-docking and undocking, with and without cargo/damage - general procedure and precautions to be observed;
- d) working knowledge of stability and trim information.

3 Legislative Requirements

- a) contents and use of Merchant Shipping Notices, Marine Guidance Notes, Marine Information Notes and the Annual Summary of Admiralty Notices to Mariners;
- b) knowledge of the application of current Merchant Shipping Health and Safety legislation, including the Code of Safe Working Practices for Merchant Seamen, and the main elements of Risk Assessment;
- c) knowledge of the relevant IMO conventions concerning safety of life at sea and protection of the marine environment;
- d) crew agreements, the official log book and the law relating to entries, inspection of living quarters and storerooms, complaints procedure;
- e) reports required by the Marine Accident Investigation Branch (MAIB);
- f) Load-line marks - entries and reports in respect of freeboard, draft and allowances;
- g) the requirements of the regulations concerning life-saving and fire-fighting appliances;
- h) application of hours of work and rest legislation;
- i) the law relating to the reporting of dangers to navigation;
- j) a knowledge of the master's obligations with respect to pilotage;
- k) purpose and application of the International Safety Management (ISM) Code;
- l) purpose of Flag State and Port State Control.