

# ORAL EXAMINATION QUESTIONNAIRE FOR CERTIFICATE OF COMPETENCY

## MASTERS AND CHIEF MATES ON SHIPS OF 500 GROSS TONNAGE OR MORE

### Notes to Candidates:

- It should be noted that the following is not a fully detailed list of orals questions, but a list of topics about which candidates are expected to have adequate knowledge, and is provided for the guidance of candidates only
- The Examiner may ask any questions relevant to the following topic areas, and/or ask the candidate to provide answers in diagrammatic form, or to complete simple calculations, to the extent necessary to test the candidates competency in the managerial, operational and safety aspects related to the duties of the grade of certificate applied for.
- Candidates for both Masters and Chief Mates grade of certificate can be asked questions from all sections listed, however the focus of the questions and the assessment, will be related to the main management responsibilities and shipboard duties involved in the certificate being applied for.
- As this syllabus also incorporates the syllabus for lower grade certificates, the Examiner may ask questions related to those lower grade certificates as it effects the overall safe operation of the vessel.
- Candidates should note that they may be required to demonstrate their proficiency in RADAR plotting and chart-work.
- During the examination, candidates will be required to demonstrate that they possess an adequate knowledge and understanding in the use of the English language.

### **Section 1 - Management of Regulatory and Ships Administration**

- Knowledge of ship inspection and survey programs and the roll of Port State control and Flag State Control Officers
- Knowledge of a ships certification, documentation and records.
- Knowledge of classification societies, classification and surveys of ships and equipment.
- Knowledge of appropriate Georgian legislation, statutory requirements, including the ISM Code and the application thereof.
- Knowledge of relevant International Codes and Conventions and the application thereof.
- Ship administration duties, shipmasters business and carriage of goods by sea
- Joining a vessel and the responsibilities and duties of shipboard personnel

### **Section 2 - STCW Standards of Watch-keeping**

- Principals to be observed in keeping a watch in port, on the bridge watch at sea, at anchor and under pilotage.
- Voyage planning berth to berth

- Bridge resource management
- Protection of the marine environment

### **Section 3 - Bridge Equipment**

- Knowledge of the different types of bridge and navigation equipment, along with the operation, testing, errors and precautions associated with the use of such equipment.

### **Section 4 - Navigation, Charts and Publications**

- Maintenance and practical knowledge of nautical publications and charts.
- Knowledge of ship reporting systems and the promulgation of all relevant maritime safety information.
- Knowledge of the use of charts and interpretation of charted information, including the general principles of voyage planning.
- Knowledge of all aspects of practical navigation and obtaining tidal information required by senior management shipboard personnel

### **Section 5 - Stress and Stability**

- Practical knowledge and use of all relevant sources of information to safely load a vessel and assess a vessels stability condition, trim and list.
- Principles of ship stability.
- Knowledge of Load lines and seasonal zones, drafts and the effects of changes in water density.
- Knowledge of the different types of shipboard stresses and means of reducing such stresses.
- Management of free surface effects.

### **Section 6 - Cargo Work**

- Knowledge of Georgian and international legislation, and detailed knowledge of the requirements, relating to the carriage, stowage, securing, loading and unloading of cargoes on various types of vessels.
- Knowledge of typical cargo handling equipment found on various types of vessels.
- Knowledge of all aspects on confined space entry
- Knowledge of the carriage of dangerous goods

### **Section 7 - Ship Handling**

- Knowledge of maneuvering techniques, principles and characteristics for the main ship types, and their propulsion systems.
- Knowledge of the safe principles of mooring and unmooring, anchoring and heaving to
- Knowledge of the use of tugs and anchors
- Knowledge of interaction and other factors affecting maneuvering in narrow channels and shallow water

- Knowledge of the principles for the safe embarking and disembarking of a pilot, and launch and recovery of rescue craft
- Management of vessel in adverse weather and the effect of wave impact on a vessel, the effect of adverse weather on various ship operations involving maneuvering

### **Section 8 - Prevention of Pollution**

- Knowledge of International legislation in relation to pollution
- Safe management principles of all relevant shipboard precautions to prevent pollution.
- Knowledge of the actions to be taken in event of a pollution incident
- Knowledge of bunkering precautions

### **Section 9 - Emergency Situations / Response and Equipment**

- Knowledge of contemporary safety issues, reports and papers, affecting the maritime industry
- Management level response to various shipboard emergency situations both in port and at sea
- Principles of damage control and salvage
- Obligations to render assistance and in sending emergency signals
- Knowledge of the safe management of helicopter operations
- Knowledge of the safe principles of towing operations

### **Section 10 - Dry Docking**

- Preparations for docking and undocking including stability issues
- Precautions and dangers whilst in dock
- Management of OH & S issues in dock

### **Section 11 - Search and Rescue**

- Knowledge of search and rescue publications, procedures, communications and equipment
- Knowledge of survival techniques

### **Section 12 - Essential Shipboard Equipment and Machinery**

- Knowledge of the operation of various types of shipboard firefighting and lifesaving equipment, together with an understanding of the associated safety aspects and precautions related to operation of such equipment.
- Operation, maintenance and inspection requirements of essential shipboard equipment and machinery
- Management and organization of statutory drills.
- Knowledge of all factors affecting the watertight integrity of the ship
- Knowledge of correct operation of on load release gear for survival craft

### **Section 13 - Collision Avoidance and Buoyage**

- The application and content of the International Regulations for Preventing Collisions at Sea  
Collision avoidance
- Knowledge of the internationally adopted system of buoyage.