

STCW-F (Fishing) Chapter II

Appendix to STCW-F Chapter II Regulation 2

Minimum Knowledge Required for Certification of Officers in Charge of a Navigational Watch on Fishing Vessels Of 24m in Length and Over Operating in Unlimited Waters

Ref: <https://www.edumaritime.net/stcwf> Source: IMO

1. The syllabus given below is compiled for examination of candidates for certification as officers in charge of a navigational watch on fishing vessels of 24 meters in length and over operating in unlimited waters.

2. Celestial navigation

Ability to use a celestial body to determine compass errors.

3. Terrestrial and coastal navigation

3.1 Ability to determine the vessel's position by the use of:

- 3.1.1 landmarks;
- 3.1.2 aids to navigation, including lighthouses, beacons and buoys; and
- 3.1.3 dead reckoning, taking into account winds, tides, currents, speed by propeller revolutions per minute and by log.

3.2 Thorough knowledge of and ability to use navigational charts and publications such as sailing directions, tide tables, notices to mariners and radio navigational warnings.

4. Radar navigation

4.1 Demonstrate using a radar simulator or, when not available, manoeuvring board knowledge of the fundamentals of radar and ability in the operation and use of radar, and in the interpretation and analysis of information obtained from the equipment,* including the following:

- 4.1.1 factors affecting performance and accuracy;

- 4.1.2 setting up and maintaining displays;
- 4.1.3 detection of misrepresentation of information, false echoes, sea return;
- 4.1.4 range and bearing;
- 4.1.5 identification of critical echoes;
- 4.1.6 course and speed of other ships;
- 4.1.7 time and distance of closest approach of crossing, meeting or overtaking ships;
- 4.1.8 detecting course and speed changes of other ships;
- 4.1.9 effect of changes in own vessel's course or speed or both; and
- 4.1.10 application of the International Regulations for Preventing Collisions at Sea, 1972.

* Reference is made to resolution 2 of the 1995 STCW-F Conference

5. Watchkeeping

- 5.1 Demonstrate thorough knowledge of the content, application and intent of the International Regulations for Preventing Collisions at Sea, 1972, especially Annexes II and IV concerned with safe navigation.
- 5.2 Demonstrate knowledge of the content of the Basic Principles to be Observed in Keeping a Navigational Watch as prescribed in chapter IV.

6. Electronic systems of position-fixing and navigation

Ability to determine the ship's position by the use of electronic navigational aids to the satisfaction of the Party.

7. Meteorology

- 7.1 Knowledge of shipborne meteorological instruments and their application.
- 7.2 Knowledge of the characteristics of the various weather systems.

8. Magnetic and gyro-compasses

Care and use of compasses and associated equipment.

9. Communications

- 9.1 General knowledge of the principles and basic factors necessary for the safe and efficient use of all sub-systems and equipment required by the Global Maritime Distress and Safety System (GMDSS).
- 9.2 Knowledge of navigational and meteorological warning systems and the selection of the appropriate communication circuits.

9.3 Knowledge of the adverse effect of misuse of such communication equipment.

10. Fire prevention and fire-fighting appliances

- 10.1 Knowledge of classes and chemistry of fire.
- 10.2 Knowledge of fire-fighting systems and procedures.
- 10.3 Participation in an approved fire-fighting course.

11. Life-saving

Ability to direct abandon ship drills and knowledge of the operations of life-saving appliances and their equipment, including the two-way radio-telephone apparatus. Survival at-sea techniques including participation in an approved survival at-sea course.

12. Emergency procedures and safe working practices for fishing vessel personnel

Knowledge of the items listed in the appropriate sections of the FAO/ILO/IMO Code of Safety for Fishermen and Fishing Vessels, part A, and in chapter VIII of the Annex to the 1993 Torremolinos Protocol.

13. Fishing vessel manoeuvring and handling

- 13.1 Basic knowledge of manoeuvring and handling a fishing vessel, including the following:
 - 13.1.1 berthing, unberthing, anchoring and manoeuvring alongside other vessels at sea;
 - 13.1.2 manoeuvring during fishing operations with special regard to factors which could adversely affect the vessel's safety during such operations;
 - 13.1.3 effects of wind, tide and current on ship handling;
 - 13.1.4 manoeuvring in shallow water;
 - 13.1.5 management of fishing vessels in heavy weather;
 - 13.1.6 rescuing persons and assisting a ship or aircraft in distress;
 - 13.1.7 towing and being towed;
 - 13.1.8 man-overboard procedure; and
 - 13.1.9 where applicable, practical measures to be taken when navigating in ice or in conditions of ice accretion on board the vessel.

14. Fishing vessel construction

General knowledge of the principal structural members of a vessel.

15. Vessel stability

Demonstrate ability to use stability data, stability and trim tables and pre-calculated operating conditions.

16. Catch handling and stowage

Knowledge of safe handling and stowage of catch and the effect of these factors on the safety of the vessel.

17. English language

Adequate knowledge of the English language enabling the officer to use charts and other nautical publications, to understand meteorological information and messages concerning ship's safety and operation. Ability to understand and use the IMO Standard Marine Communication Phrases.

18. Medical aid

Knowledge of first aid procedures. Practical application of medical guides and advice by radio.

19. Search and rescue

Adequate knowledge of search and rescue procedures based on the Merchant Ship Search and Rescue Manual (MERSAR).

20. Prevention of pollution of the marine environment

Knowledge of the precautions to be observed to prevent pollution of the marine environment.

21. Methods to demonstrate proficiency

The Party shall prescribe methods for the demonstration of proficiency in relevant requirements of this appendix.
