

STCW-F (Fishing) Chapter II

Appendix to STCW-F Chapter II Regulation 4

Minimum Knowledge Required for Certification of Officers in Charge of a Navigational Watch on Fishing Vessels of 24 Meters in Length and Over Operating in Limited 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 metres in length and over operating in limited waters.
2. **Terrestrial and coastal navigation**
 - 2.1 Ability to determine the vessel's position by the use of:
 - 2.1.1 landmarks;
 - 2.1.2 aids to navigation, including lighthouses, beacons and buoys; and
 - 2.1.3 dead reckoning, taking into account winds, tides, currents and speed by propeller revolutions per minute and by log.
 - 2.2 Thorough knowledge of and ability to use navigational charts and publications such as sailing directions, tide tables, notices to mariners and radio navigational warnings.
3. **Radar navigation**
 - 3.1 The Party shall decide whether or not to incorporate the radar syllabus below in the general requirements for certification of officers in charge of a navigational watch. If the Party decided not to include the syllabus in the general requirements, it shall ensure that the syllabus is taken into account for purposes of certification of officers in charge of a navigational watch serving on vessels fitted with radar equipment and plying within limited waters.
 - 3.2 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:

- 3.2.1 factors affecting performance and accuracy;
- 3.2.2 setting up and maintaining displays;
- 3.2.3 detection of misrepresentation of information, false echoes, sea returns;
- 3.2.4 range and bearing;
- 3.2.5 identification of critical echoes;
- 3.2.6 course and speed of other ships;
- 3.2.7 time and distance of closest approach of crossing, meeting or overtaking ships;
- 3.2.8 detecting course and speed changes of other ships;
- 3.2.9 effect of changes in own vessel's course or speed or both; and
- 3.2.10 application of the International Regulations for Preventing Collisions at Sea, 1972.

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

4. Watchkeeping

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

5. Electronic systems of position-fixing and navigation

- 5.1 Ability to determine the ship's position by the use of electronic navigational aids, where applicable, to the satisfaction of the Party.

6. Meteorology

- 6.1 Knowledge of shipborne meteorological instruments and their application.
- 6.2 Knowledge of the characteristics of the various weather systems affecting the limited waters concerned.

7. Compasses

- 7.1 Ability to determine and apply compass errors.

8. Fire fighting

- 8.1 Knowledge of fire prevention and use of fire-fighting appliances.
- 8.2 Participation in an approved fire-fighting course.

9. Life-saving

- 9.1 Knowledge of life-saving appliances provided on fishing vessels. Organization of abandon ship drills and the use of the equipment.
- 9.2 Participation in an approved survival at sea course.

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

- 10.1 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 III of the Annex to the 1993 Torremolinos Protocol.

11. Fishing vessel, manoeuvring and handling

- 11.1 Basic knowledge of manoeuvring and handling a fishing vessel, including the following:
 - 11.1.1 berthing, unberthing, anchoring and manoeuvring alongside other vessels at sea;
 - 11.1.2 manoeuvring during fishing operations with special regard to factors which could adversely affect the vessels during such operations;
 - 11.1.3 effects of wind and tide/current on ship handling;
 - 11.1.4 manoeuvring in shallow water;
 - 11.1.5 management of fishing vessels in heavy weather;
 - 11.1.6 rescuing persons and assisting a ship or aircraft in distress;
 - 11.1.7 towing and being towed;
 - 11.1.8 man-overboard procedure; and
 - 11.1.9 where applicable, practical measures to be taken when navigating in ice or in conditions of ice accretion on board the vessel.

12. Vessel stability

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

13. Catch handling

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

14. Fishing vessel construction

14.1 General knowledge of the principal structural members of a vessel.

15. Medical aid

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

16. Search and rescue

16.1 Knowledge of search and rescue procedures.

17. Prevention of pollution of the marine environment

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

18. Methods to demonstrate proficiency

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