

8. *Compasses – magnetic and gyro*

Knowledge of the principles of magnetic and gyro-compasses including errors and corrections. With regard to gyro-compasses, an understanding of the systems under the control of the master gyro and a knowledge of the operation and care of the main types of gyro-compasses.

9. *Automatic pilot*

Knowledge of automatic pilot systems and procedures.

10. *Radiotelephony and visual signalling*

- (a) Ability to transmit and receive messages by morse light.
- (b) Ability to use the International Code of Signals.
- (c) Knowledge of procedures used in radiotelephone communications and ability to use radiotelephones, in particular with respect to distress, urgency, safety and navigational messages.

11. *Fire prevention and fire-fighting appliances*

- (a) Ability to organize fire drills.
- (b) Knowledge of classes and chemistry of fire.
- (c) Knowledge of fire-fighting systems.
- (d) Attendance at an approved fire-fighting course.

12. *Life-saving*

Ability to organize abandon ship drills and knowledge of the operation of lifeboats, liferafts, buoyant apparatus and similar life-saving appliances along with their equipment, including portable radio apparatus and emergency position-indicating radio beacons (EPIRBs). Knowledge of survival at sea techniques.

13. *Emergency procedures*

Knowledge of the items listed in the appropriate Appendix of the current edition of the ILO/IMCO "Document for Guidance".

14. *Ship manoeuvring and handling*

Knowledge of:

- (a) the effects of various deadweights, draughts, trim, speed and under keel clearance on turning circles and stopping distances;
- (b) effects of wind and current on ship handling;
- (c) manoeuvres for the rescue of man-overboard;
- (d) squat, shallow water and similar effects;
- (e) proper procedures for anchoring and mooring.