



New Syllabus for 12 Nautical Miles

1. Legal and professional responsibilities of skippers under the Tourism Authority Act 2006.

- a) The meaning of 'Skipper' as defined under the Tourism Authority Act 2006 and his legal and professional responsibilities.
- b) Types of pleasure craft and registration marks (OL/IL/Commercial/Private)
- c) Types of skipper's licences
- d) The offences for which skippers are booked by the NCG/Authorised officers of the Tourism Authority.

2. Nautical Terms

- a) The terms used to describe different parts of a craft
- b) The expressions used in connection with boat operation
- c) General sea terms used to express directions with respect to own craft

3. Magnetic Compass and directions at sea.

- a) Cardinal directions
- b) The use of a magnetic compass to steer in a particular direction at sea
- c) The use of a magnetic compass in determining own craft's position at sea with respect to landmarks.

4. Course, Speed and distance at sea.

- a) How distances are expressed at sea.
- b) The concept of knots, nautical miles
- c) Conversion of distance over time into knots.

5. Basics of GPS

6. Navigational buoys and lighthouses:

- a) The five types of navigational buoys-how to differentiate them by day and by night, their importance in helping the skipper to navigate safely at sea.
- b) The importance of light houses-how they help in positioning a craft at sea by day and by night, how to identify lighthouses by day and by night.

7. International Regulations for the Prevention of collisions at sea (IRPCS)

- Rules 1, 2 and 3 under **Part A(General)**

Rule 1: Application

Rule 2: Responsibility

Rule 3: General Definitions

- Rules 1 to 18 (except Rule 10) under **Part B. Steering and Sailing Rules**

Section 1: Conduct of vessels in any condition of visibility

Rule 5: Lookout

Rule 6: Safe Speed

Rule 7: Risk of Collision

Rule 8: Action to avoid a collision.

Rule 9: Narrow Channels

Section 2: Conduct of vessels in sight of one another.

Rule 11: Application

Rule 12: Sailing vessels

Rule 13: Overtaking

Rule 14: Head On Situation

Rule 15: Crossing Situation

Rule 16: Action by Give Way Vessel

Rule 17: Action by Stand on Vessel

Rule 18: Responsibilities between vessels

Section 3: Conduct of Vessels in Restricted visibility.

Rule 19: Conduct of vessels in restricted visibility

- **Part C: Lights and shapes**

Rule 20: Application

Rule 21: Definitions

Rule 22: Visibility of lights

Rule 23: Power-driven vessels underway

Rule 24: Towing and Pushing (Candidates will be examined on astern towing operations only)

Rule 25: Sailing vessels

Rule 26: Fishing vessels

Rule 27: Vessels not under command or restricted in their ability to manoeuvre.

Rule 28: Vessel constrained by their draught

Rule 29: Pilot Vessels

Rule 30: Anchored Vessels and vessels aground.

Rule 32: Definitions

- **Part D** Introduction to sound signaling (Rule 34 & 35)

8. Tides and Current

- a) The tidal theory
- b) Neap and spring tides
- c) Tidal currents
- a) Ocean current patterns around Mauritius

9. Basic Meteorology

- a) Pressure systems
- b) Air Masses
- c) Frontal systems
- d) Isobars
- e) Pressure Gradient
- f) Beaufort Scale(wind and sea state)
- g) Use of instruments
- h) Formation of tropical storms

10. Safety at Sea

- a) Safety doctrine as a responsible skipper
- b) Pre-sailing checks
- c) Importance and use of life saving equipment
- d) Distress signals
- e) Role of National Coast Guard(NCG) as Maritime Rescue Coordination Centre(MRCC)
- f) Abandon ship procedures, launching and boarding of life raft

11. Actions in emergencies at Sea

- a) Fire onboard
- b) Collisions/groundings
- c) Man over board
- d) Flooding

12. Boat Handling

- a) Factors affecting boat handling characteristics
- b) Roles of rudders and propellers

- c) Effect of speed on boat handling
- d) Boat Handling in shallow waters
- e) Berthing and unberthing manoeuvres.
- f) Boat handling in rough seas.

13. Basic Radio Procedure

- a) Using VHF marine radio sets for establishing communication and transmitting distress messages
- b) Channel 16- International calling and distress frequency

14. Marine engines- OBMs & IBMs

- a) Basic working principles of engines
- b) Two stroke and four stroke engines
- c) Maintenance and troubleshooting
- d) Understanding Electrical sources of power onboard pleasure craft.
- e) Care and maintenance of batteries

15. Life Saving and First Aid

- a) Demonstration of Swimming abilities
- b) Capable of applying First Aid.
- c) Capable of performing a cardio pulmonary resuscitation. (CPR) on a dummy.

16. Life raft training- Abandon ship procedures

- a) Management of crisis onboard following a fire outbreak, Collision, grounding.
- b) Skipper's decision to abandon ship.
- c) Organising his team for launching of life raft.
- d) Sea survival on life raft.

17. Fire Fighting

- a) The fire triangle
- b) Causes of Fire
- c) Security rounds
- d) Fire Fighting techniques

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