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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