

INTERNATIONAL YACHT TRAINING WORLDWIDE

YACHTMASTER COASTAL - Recreational COURSE SYLLABUS, FRAMEWORK AND DEPTH OF KNOWLEDGE

Overview

The IYT Worldwide Yachtmaster Coastal certificate is a recreational certificate of competency for operating yachts in command of a vessel up to a maximum length of 80 ft /24 meters (either auxiliary powered sailing vessels or a power vessels – per certificate endorsement) and its crew in coastal waters upto a distance of 60 miles offshore in moderate wind and sea conditions, day and night). The programme is an extensive course designed to provide the highest standards of maritime education for the recreational yachtsman and woman.

The course is for Sailing and Power Vessels - Sailing Vessel candidates will be required to carry out all the evolutions under both Sail and Auxiliary power. A power endorsement WILL NOT be given for a candidate on a Sailing vessel. To gain the YM Coastal certificate, the candidate must attend a 6 day practical/Theory course on board a yacht; successfully complete a theory exam and practical assessment.

Note: The Recreational YM Coastal is a RECREATIONAL course, (it is NOT the Master of Yachts (MOY) professional course).

Please note that these recreational courses, Yachtmaster Coastal, Offshore and Ocean, can be taught in any language BUT note that the students will not be able to upgrade from this to the professional Master of Yachts certificates without retaking the complete theory course with all exams and the complete practical course and final practical assessment IN ENGLISH AT AN APPROVED IYT Worldwide MOY SCHOOL.

Course Framework

Scope: A 6 day on board course with practical assessment and written examination incorporating subjects including navigation, tides and currents, international collision regulations, pilotage, weather and forecasting, anchoring and berthing, buoyage, safety, passage planning and seamanship.

Objective: The expected learning outcome is that the student understands the theory and practical applications of:

- Basic navigation, pilotage and passage planning
- Safe and correct vessel handling
- Tides, Currents and Tidal calculations
- International and (Local) Collision Regulations and buoyage
- Weather and weather forecast information
- Anchoring, berthing and seamanship
- Safety and contingencies

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Entry Standard: An intensive course designed for crew with sufficient on the water experience, proof of the required sea time will be required upon booking.

The Candidate should be 18 years of age or over

The Candidate should have 2 days at least as watchleader/captain

The requirements are:

800 nautical miles

25 days on board at sea

12 hours on watch at night underway

VHF or Radio Operator Certificate

A physical/medical which must include eyesight and colour blindness check

Certificate and/or Documentation: To be issued after successful completion of all the modules:
Yachtmaster Coastal Certificate of Competency

Maximum Class Size: 5 for the on board practical. (16 to 1 for any classroom theory)

Candidate/Instructor Ratio: 5 to 1 for the on board practical.

Specific Staff Requirements: Instructors will be qualified to level required by IYT Worldwide.

Teaching Facilities and Equipment:

Facility: School classrooms and vessels will be approved by IYT Worldwide

Course Equipment: As needed and if part of the course is covered ashore
PowerPoint Projector and computer
Television and VCR
Whiteboard or Blackboard
Charts and nautical publications

Teaching Aids:

Visual Aids: PowerPoint presentation Slides and Videos

Textbook(s): IYT Worldwide Textbook
PowerPoint Presentation

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Reference Books: Admiralty or local versions of the following:

- 1 Sailing Directions
- 2 Tide Tables
- 3 Tidal Stream Atlases
- 4 International Code of Signals
- 5 List of Radio Signals
- 6 List of Lights
- 7 Notices to Mariners
- 8 Nautical Almanac
- 9 Navigational Tables
- 10 Mariners Hand Book

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Teaching Outline

| Day | Time | Daily Outline | Notes Reference |
|-----|----------------------|--|---|
| 1 | 0900 - 1900 | Introduction, Review Weeks Schedule, Stow personal gear and Provisions Review Boat Systems, Safety equipment and checks Passage Planning, Coastal Navigation Review, Plan for Night Entry Voyage to include Navigation exercises, Position Fixing Beam Bearings, DR, EP and Fixes Boat handling principles, Power and sail, MOB and Sail handling, sail trim etc Anchor, Dinner and review | Chapters 1-6 Chapter 16 and 19 |
| 2 | 0700 - 2100+ | Preparation for sea Safety and Survival at sea, Radio/VHF Coastal Navigation Review and practice, Chartwork, plotting, Tides and Currents, Course to steer Rules of Road, Lights & Shapes Boat handling, Power and sail, MOB and Sail handling, sail adjustment Anchor, Dinner and review | Chapter 19 Chapters 15 -17 Chapters 7 – 10 and Chapter 14 |
| 3 | 0800 - Sunset | Coastal Navigation Review and practice, Pilotage and Passage planning Meteorology Electronic Navigation Aids Boat handling, Power and sail, MOB and Sail handling, sail trim etc Anchors and Anchoring Anchor, Dinner and review | Chapters 11 – 13 Chapter 18 |
| 4 | Sunrise – after dark | Rules of Road, Lights & Shapes Chartwork, plotting, Tides and Currents, Course to steer Close quarters manoeuvring Anchor, Dinner and review | Chapter 14 and Chapters 7 – 10 |
| 5 | 0800 – After dark | Pilotage and Passage planning Meteorology Boat handling, Power and sail, MOB and Sail handling, sail trim etc Close quarters manoeuvring Anchor, Dinner Complete Syllabus Review, Clean and Prep vessel for Exam | Chapter 11 and 12 |
| 6 | 0800 - 1700 + | YM Coastal Independent Examination Complete Syllabus | |

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Exam Policy

A written and practical examination will be given on the sixth day of the course.

A grade of 70% or higher is required for a pass.

Practical examinations are graded on a PASS or FAIL grading system. The Instructor/Assessor will assign one of these grades at each part of the exam.

A PASS grade will be assigned when the candidate successfully meet the pass standard set for each part of the examination.

A FAIL grade will be assigned when the candidate cannot successfully meet the pass standard set for each part of the examination.

The Practical Examiner, **APPROVED BY IYT WORLDWIDE** may be appointed by the School **BUT MUST NOT HAVE TAUGHT ANY PORTION OF THE CLASS.**

Re-Testing Policy

Where a candidate fails an examination, that candidate will be allowed to retake the practical examination after further experience and training.

Two resit attempts will be permitted within 12 months of the first exam attempt, after which time the candidate will be required to resit the whole course.

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Syllabus

Part 1: Theory Component

1. Chart-work Instruments
 - a. Dividers and compasses.
 - b. Proprietary plotting instruments.
 - c. The Breton Plotter.

2. Charts Latitude & Longitude
 - a. Knowledge of standard navigational terms.
 - b. Chart symbols - chart no.1, BA 5011, charts and chart symbols
 - c. Chart suppliers - NOAA, Imray, etc.
 - d. Latitude & longitude.
 - e. Defining a position by latitude and longitude.
 - f. Differences between I.A.L.A. (A) and I.A.L.A. (B)

3. Distance, Speed, Time & Direction
 - a. Definition of terms.
 - b. Position by bearing and distance.

4. The Magnetic Compass
 - a. Allowance for variation, change of variation with time and position.
 - b. Siting of compass and causes of deviation.
 - c. Steering and hand bearing compasses.

5. Position Fixing
 - a. Running fixes.
 - b. Techniques of visual fixing.
 - c. Fixes containing a mixture of position lines.

6. Dead Reckoning and Estimated Position
 - a. Definition of D.R. and E.P.
 - b. Working up D.R. and E.P. by plotting on a chart.

7. Chartwork, plotting and Ships Log.

8. Tides
 - a. Tide and tidal height definition.
 - b. Causes of springs and neaps.
 - c. Use of Reed's for tidal information.
 - d. The rule of twelfths.

9. Currents
 - a. Definitions of current data
 - b. Current tables & charts

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10. Course to steer to counteract a current
 - a. Plotting a C.T.S.
 - b. Leeway and continuous direction current.

11. Pilotage and Passage Planning
 - a. Pilot books, almanacs and other sources of information.
 - b. Methods of pre planning.
 - c. Harbour Regulations and control signals.
 - d. Routine for navigation of a yacht in coastal waters.
 - e. Strategy for course laying.

12. Meteorology
 - a. Weather patterns associated with pressure and frontal systems.
 - b. Cloud types and formations.
 - c. Sources of broadcast meteorological information.
 - d. Land & Sea breezes.
 - e. Sea fog forecasting.

13. Electronic Navigation Aids
 - a. Radio Direction Finders.
 - b. Loran C.
 - c. Global Positioning System.

14. Collision Regulations
 - a. The International Regulations for preventing collisions at sea.

15. International V.H.F. Operational Procedures
 - a. Use of the distress frequency.
 - b. The phonetic alphabet.
 - c. Normal operating procedures.

16. Safety at Sea
 - a. Personal safety, use of life jacket, safety harnesses and lifelines, equipment to be carried, stowage and use.
 - b. Fire prevention and fire fighting.
 - c. Distress signals.
 - d. Contents of first-aid box, prevention and treatment of seasickness.
 - e. Basic First Aid techniques
 - f. Action to be taken in heavy weather, use of sea anchors and drogues
 - g. Liferafts, EPIRB, SART.

17. Survival at Sea

18. Anchors and anchoring

19. Check list, prepare for sea

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Part 2: Practical Component

1. Safety
 - a. Knowledge of the safety equipment to be carried, its stowage and use.
 - b. Fire precautions and fire fighting.
 - c. Use of personal safety equipment, harnesses and lifejackets.
 - d. Ability to send a V.H.F. radio distress message.

2. Boat Handling and Manoeuvring
 - a. Coming to and weighing anchor.
 - b. Berthing and leaving a berth.
 - c. Use of warps and fenders.
 - d. Boat handling in confined areas.

3. Seamanship
 - a. General deck work.
 - b. Knots
 - c. Care and use of mooring lines.

4. Responsibilities of the Captain
 - a. Communicating with the crew.
 - b. Delegation of responsibility.
 - c. Tactics for heavy weather and restricted visibility.
 - d. Distress and emergency situations.

5. Navigation
 - a. Buoyage and visual aids to navigation.
 - b. Instruments their uses and functions.
 - c. The importance of a ship's log.
 - d. Limits of navigational accuracy and margins of safety.
 - e. Navigation by G.P.S.

6. Meteorology
 - a. Interpretation of a coastal weather forecast.
 - b. Ability to make passage planning decisions based on forecast information.

7. Collision Regulations
 - a. Lights and Shapes.
 - b. Sound and Distress Signals.
 - c. General Rules.

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Depth of Knowledge

One of 4 levels of Depth of Knowledge will be required for every subject within each training level, these levels are Introductory, Outline, Working and Complete, and the level for each is defined below:

Introductory

The material is introduced to the candidate without the knowledge having to be retained. The candidate is shown how to carry out certain tasks or exercises, and is made aware of the correct and safe way of carrying these out.

Outline

The candidate will need to demonstrate an outline knowledge of the syllabus and should be able to carry out basic tasks the correct and safe way with some supervision.

Working

The candidate will need to demonstrate a working knowledge of the syllabus and be able to carry out tasks without prompting, in a correct and safe way.

Complete

The candidate will need to demonstrate a thorough and complete knowledge of the syllabus and be able to carry out all the tasks without prompting or hesitation in a safe and correct way.

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Competency requirements

The candidate must be able:

To demonstrate a detailed working knowledge of the theory syllabus as outlined and;

To demonstrate the ability to perform the required practical skills safely and confidently whilst in command of a vessel and crew within the geographical range and weather conditions expected for the YM Coastal Certificate of Competence.

The candidate should be aware of their limitations for operation of a vessel outside the expected level of geographical and weather conditions.

Theory Component

This may take the form of both written and oral examination.

The candidate is required to demonstrate successfully a sound working knowledge and understanding of the following:

Seamanship

Names of the parts of a vessel, the sails and rigging, and the sail controls

Knots and splices and their uses

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Collision Regulations

A sound working knowledge of The International Regulations for preventing collisions at sea and how to access the rules

Understands the general rules having regard to the geographical range and weather conditions expected for the YM Coastal Certificate of Competence.

Understands the need for a proper watch, the actions required of a stand on vessel and give way vessel, the rules for sailing and power vessels and has a sound working knowledge of rules 1 – 19.

Has a sound working knowledge of the basic rules regarding shapes, lights and sound signals.

Navigation and Chartwork

Chart-work Instruments, plotting and Ships Log

Knowledge of standard navigational terms, charts and chart symbols

Latitude and longitude and defining a position by latitude and longitude

Distance, Speed, Time & Direction

The Magnetic Compass, variation, and causes of deviation and use of steering and hand bearing compasses

Position Fixing, Running fixes, techniques of visual fixing and fixes containing a mixture of position lines

Dead Reckoning and Estimated Position and plotting on a chart

Electronic Navigation Aids

Demonstrates use of Loran C and the types of Global Positioning System, radar as aids to navigation

Tides and Currents

Tide and tidal height definitions, causes of springs and neaps, use of Almanac/Tide Tables for tidal information and the rule of twelfths.

Currents, understanding current data, current tables and charts

Course to steer to counteract a current, plotting a C.T.S., and leeway and continuous direction current

Pilotage and Passage Planning

Pilot books, almanacs and other sources of information

Chart suppliers.

Pre planning a voyage, Harbour Regulations and control signals, routine for navigation of a yacht in coastal waters.

Strategy for course laying

Meteorology and Weather

Use of the barometer as an aid to forecasting.

Weather patterns associated with pressure and frontal systems.

Cloud types and formations

Sources of broadcast meteorological information

Land and Sea breezes

Sea fog forecasting

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Radio

V.H.F. Operational Procedures, normal operating procedures
Proper use of the distress frequency
The phonetic alphabet

Safety and Survival at Sea

Personal safety, use of life jacket, safety harnesses and lifelines, equipment to be carried, stowage and use
Fire prevention and fire fighting.
Distress signals
Contents of first-aid box, prevention and treatment of seasickness
Action to be taken in heavy weather
Liferafts, EPIRB
Preparation for heavy weather, use of sea anchors and drogues

Anchors and anchoring

Types of anchors and their advantages and disadvantages, correct scope
Selection of an anchorage, dealing with anchor dragging
Correct use of Anchor rodes, rope and chain
Use of trip line, anchor buoy, and clearing a fouled anchor

Check lists and preparation for sea

Can prepare a vessel for sea and understands the need for a comprehensive check list

Additionally for the following endorsements:

Sail Endorsement

The candidate is required to demonstrate successfully a sound basic knowledge and understanding of the following:

Sailing dynamics, centre of effort, centre of lateral resistance
The causes and effects of Lee and weather helm
Real and apparent wind and their relationship

Power Endorsement

A basic understanding of:

Fuel consumption and the factors affecting consumption
Fuel reserve and the importance of planning fuel stops
The use of engines to manoeuvre, use and function of trim tabs, engine and rudder combination

Practical Component

This will take the form of both practical demonstrations of skills and oral examination.
The candidate is required to demonstrate successfully the all skills, detailed working knowledge and understanding of the following:

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Command, Crew Functions and Crew Briefing

Understands the responsibilities of the captain's role, the crew responsibilities for all manoeuvring functions and appropriate direction and communication with the crew

Demonstrates appropriate crew briefing on joining the vessel and on all manoeuvres during the practical exam

General Ability as Captain

Throughout the practical exam:

Organize the vessel in preparation for going to sea

Set up an appropriate watch organization

Demonstrate effective Communication with crew

General

Demonstrates knowledge and awareness of appropriate Personal Clothing, and protection from the cold and sun

Vessel Pre Sailing checks

Perform a basic check of the vessels hull, through hull fittings, rudder operation, emergency steering (if fitted)

Prepare a plan of the vessel showing through hull fittings and location of safety equipment

Perform a basic check of all the engine controls, engine fluids check, cooling system check, transmission check, including any ancillary power units, generators etc, and ventilation system. (Including a check of Water intake/separators, oil and fuel filters)

Understands the need and describes the requirements for the carriage of appropriate tools spares etc, having regard to the nature and duration of the voyage. (Engine and other systems)

Perform a basic check on the electrical system, main battery switch, electrical panel, batteries, including fluids and terminals

Perform a basic check on the bilge pump system, including strum boxes, float switches, pump alarms and manual pumps

Perform a basic check of the head systems, valves, seacocks, pumps, holding tanks and pump out mechanisms

Perform a basic check of the fresh water system, valves, pumps and adequate water quantity.

Perform a basic check on the anchoring equipment, anchors, chain, rope, shackles, mousing, windlass, bitts/cleats and methods to prevent chafing

Understands basic precautions whilst fuelling, and can determine a vessels range under power having regard to appropriate reserve

Prepares Float Plan and files it ashore with an appropriate responsible person

Sail Endorsement

Perform a basic inspection of the spars, standing and running rigging

Can describe with reasons the selection of an appropriate sail wardrobe for the proposed voyage

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Safety Equipment

Perform an inventory and location check of all safety equipment, include a crew briefing and demonstration of the location and methods of use of life jackets, safety harnesses, fire fighting equipment, first aid, flares, liferaft, EPIRB and SART, and any other local safety equipment requirements, Operational Areas laws and regulations.

Housekeeping

Describes a provisioning plan having regard to the type and length of voyage and the number of crew, including varied menus, correct quantities and allowance for preferences, allergies etc.

Weather and Tide information

Describes sources of, obtains and interprets local coastal weather forecast information, tide state and other information relating to the area of operation as appropriate. Is able to make passage planning decisions based on forecast information. Demonstrates a working knowledge of forecasting techniques for the duration of the voyage and understands the importance of personal observation.

Buys Ballot's Law/ Wind direction round High/low, Tropical storms etc.

Collision Regulations

Demonstrates the ability to apply the International Regulations for preventing collisions at sea and shows a sound working understanding of the responsibility of the master of a vessel within the operational range expected for the Certificate of Competence.

Demonstrates the importance of maintaining a proper watch and the use and interpretation of correct shapes, lights and sound signals

Navigation and Pilotage

Demonstrates the preparation of a Pilotage Plan and Passage Plan for a voyage within the operational range expected for the Certificate of Competence

Demonstrates ability to identify basic chart symbols and confirm by visual observations

Demonstrates the Plotting of a Course to Steer having regard to tides and currents (and leeway)

Performs a continuous plot using both DR and EP Plotting and the use of the ship's log and compass

Demonstrates distance/speed/time calculations

Demonstrates ability to take and plot a position; correct use of ships compass and a hand bearing compass to produce a fix comprising 2/3 bearings fix, a transit and bearing fix and a running fix.

Demonstrates the calculation and use of variation and deviation

Demonstrates plotting danger bearings

Demonstrate a basic understanding of electronic navigation systems to plot Latitude and Longitude, and is aware of the shortfalls of electronic navigation systems.

Demonstrates the use of tide and tidal current tables and predict the state of tide and current at any time and understand secondary corrections.

Demonstrates a working knowledge of the buoyage system for International and Inland waters

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Seamanship - Power and Sail

Is able to steer a compass course for 15 minutes, accurate to within + or – 10 degrees.
Demonstrates Departure from Dock having regard to effects of wind, tide and current. Can outline alternatives for departing in upwind, downwind and cross wind situations
Demonstrates Docking ahead and astern having regard to effects of wind, tide and current. Can outline alternatives for docking in upwind, downwind and cross wind situations
Demonstrates vessel control in confined areas, turning in confined space, basic understanding of windage, prop walk, speed and momentum controls.
Demonstrates correct securing alongside/dock
Demonstrates correct handling warps/fenders/fenderboards.
Demonstrates the correct methods of using spring lines for securing and manoeuvring
Demonstrates approaching and securing to a Mooring Buoy
Demonstrates the correct methods for the use of Anchors, different types and their use, the correct scope of an anchor rode, and including the use of 2 anchors
Demonstrates retrieval of anchor under power and can describe methods of recovering a fouled anchor.
Properly demonstrates the most appropriate MOB and recovery method, having regard to the vessel, crew and wind/sea conditions. Understands it is especially important to maintain visual contact with the victim and recover as soon as possible.
Demonstrates the appropriate use of knots, figure of eight, bowline, reef knot, rolling hitch, clove hitch, round turn and two half hitches and single sheet bend, and eye splice

Distress and Emergency

Can list at least 8 different distress signals contained in Rule 37.
Simulates proper use of flares and regulations for use
Demonstrates a simulated VHF mayday
Understands Fire Precautions and demonstrates actions in event of fire
Describes the actions to be taken in the event of Abandon ship, including Life raft procedures and correct use of Hydrostatic Release Unit.
Can list the Contents of 1st Aid Kit and be familiar with the treatment of wounds, burns, fractures, cuts, hypothermia, heat stroke and seasickness.
Can list appropriate items to be found in a Grab Bag
Can describe actions and procedures to be taken in response to Emergency situations:-
Loss of power near a Lee shore, run solidly aground, steering failure, holing, dismasting, heavy weather, Fire, medical emergency, towing

Sail Endorsement

Demonstrate the proper basic use of sail controls, the sails, battens, sheets, halyards, winches and other controls normally found on a cruising vessel.
Demonstrate proper helmsman and crew coordination on all points of sail and on all manoeuvring.
Sail a circle controlling the vessel/crew, with proper sail trim, appropriate adjustment of main and headsail sheets, and showing proper control in tacking and gybing.
Demonstrates ability to manoeuvre under sail in confined areas, short tacking and controlled gybing
Demonstrates understanding and plan in the event of engine failure in a confined area

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Sail up to, stop safely, in control, to a mooring buoy

Properly demonstrates the most appropriate MOB and recovery method, having regard to the vessel, crew and wind/sea conditions under sail, with controlled stop at victim. Quick stop, quick turn and lifesling

Explanation for and proper selection of appropriate sails for the vessel for all weather conditions

Demonstrates proper Heave to

Demonstrate Reefing and unreefing the vessel and describe the use of and methods of rigging storm sails.

Explanation of different sail shapes for all points of sail and wind strengths, and the demonstration of the correct use of, luff tension, foot tension, leech line, vang, jib sheets and fairlead position, backstay tension.

Explanation and demonstration for basic tuning of the standing rigging

Power Endorsement

Demonstrate the proper basic use of engine controls, rudders and trim tabs.

Demonstrate proper helmsman and crew coordination on all manoeuvring

Properly demonstrates the most appropriate MOB and recovery method, having regard to the vessel, crew and wind/sea conditions under sail, with controlled stop at victim. Quick stop, and Williamson turn.

End of Voyage

Demonstrate stowing of all equipment (sails and rigging), thoroughly clean the vessel.

Check the electrical system, main battery switch etc.

Check the bilge pump system

Check the head systems, valves, seacocks, pumps and holding tanks

Correctly adjust the lines, springs and fenders and lock all hatches lockers etc.