

# **INTERNATIONAL YACHT TRAINING WORLDWIDE**

## **BAREBOAT SKIPPER COURSE SYLLABUS, FRAMEWORK AND DEPTH OF KNOWLEDGE**

### **Overview**

This is a certificate of excellence for those candidates who wish to take command of their own yachts confidently and safely or for those who wish to safely charter a small Yacht for their family vacation.

IYT Worldwide may accept prior learning from other recognised Yachting establishments for those who wish to apply for recognition towards the International Bareboat Captain/Skipper Certificate Examination.

**The certificate covers command of a vessel up to a maximum length of 65 ft /18 metres (either auxiliary powered sailing vessels or a power vessels – per certificate endorsement) and its crew in coastal waters upto a distance of 20 miles offshore in daylight hours and in fair conditions with moderate wind and sea conditions; as guidance wind of less than force 6 and less than 3 metre waves**

It is the level of competence that someone needs when chartering a boat, ie in the Mediterranean or West Indies where there are restrictions in terms of cruising area and distance from the base and the vessel has to be safely moored in a marina or anchored before dark

**Scope:** A 5/6 day course, on board/in class, with practical assessment and examination incorporating subjects including basic understanding and application of 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 basic theory and practical applications of:

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

**Entry Standard:** **The Candidate should be 18 years of age or over.  
The Candidates is required to have logged a total of 200 nautical miles and 10 days at sea, before advancing to the International Bareboat Captain/Skipper Course..**

**Certificate and/or Documentation:** To be issued after successful completion of all the modules:  
The Internationally Recognised IYT Worldwide Bareboat Skipper Certificate

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**Maximum Class Size:** 5 for the on board practical, 16 to 1 in class subject to classroom size.

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

**Specific Staff Requirements:** Instructors will be appropriately qualified to IYT Worldwide requirements.

## **Teaching Facilities and Equipment:**

**Facility:** Approved by IYT Worldwide:  
IYT Worldwide Member School's classrooms  
IYT Worldwide Member School's vessels

**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  
IYT Worldwide PowerPoint Presentations (To be prepared)

**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 Timetable**

The modules for the Bareboat Skipper course should be taught using the “International Yachting Passport” as the Teaching Framework/Plan. The school can be flexible in the way and order the material is delivered. However the syllabus MUST be covered and the candidates assessed to the Depth of Knowledge outlined below.

## **Exam Policy**

A written examination will be given on the last day of the course.

A grade of 75% or higher is required for a pass.

There is no formal Practical assessment for the Bareboat Skipper Course. Candidates should however be assessed during the practical modules and meet the minimum competencies defined in the Depth of Knowledge section below and in the International Yachting Passport.

## **Re-Testing Policy**

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

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## **Syllabus**

### **Module 14 –Theory Subjects**

#### **1. Introduction**

Aims and objectives of the module

#### **2. Taking over A Vessel, Check Out**

Hull and rig checks

Machinery and systems checks

Instrument checks

Safety equipment checks

Spares, tools and equipment

Fuel and water capacity, range

Menus, quantities

Float plan/Trip plan lodged with responsible person ashore

#### **3. Tides and Currents Theory**

Causes of tides and currents

Tidal heights and “Rule of Twelfths”

Springs and Neaps, Ebb and flood

Use of Almanacs, tide tables, tide atlas, tidal diamonds,

Primary and secondary ports

#### **2. Chartwork**

Review of position fixing, running fixes

Course to steer to counteract a current

Effect of tide and plotting the effect of tides/currents

### **Module 15 – Practical Subjects**

#### **1. Introduction**

Aims and objectives of the module

#### **2. Vessel check out**

Hull and rig checks

Machinery and systems checks

Instrument checks

Safety equipment checks

Fuel and water capacity

#### **3. Responsibilities of Captain/Skipper**

Communication with crew and Delegation to crew

#### **4. Seamanship**

General deck work

Ropes, knots and splices, care and use of lines

#### **5. Vessel Handling**

Anchoring, mooring and MOB

Berthing and leaving a berth

Handling in confined areas

Handling and berthing, with, against and cross currents

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## **Module 16 –Theory Subjects**

### **1. Introduction**

Aims and objectives of the module

### **2. METEOROLGY**

Sources of meteorological information, importance of personal observation

Weather patterns associated with pressure and frontal systems

Sea and land breezes, Anabatic and katabatic winds

Cloud types and formations

Precipitation and fog

### **3. Pilotage And Passage Planning**

Pilot books, almanacs, and sources of information

Considerations when planning a passage

Routine for navigating a vessel on a coastal passage

Passage strategy, tidal gates etc

Port regulations and reporting requirements

Pilotage plans

### **4. Collision Regulations**

Review of collision regulations

Lights, sounds and shapes

Application of the regulations

## **Module 17 – Theory and Practical Subjects - Assessment/Examination**

### **1. Introduction**

Aims and objectives of the module

### **2. Review**

General revision of module materials

### **3. Theory Assessment**

Written assessment of all theory components

### **4. Practical Assessment**

Either Power Boat Handling Skills or Sail Boat Handling Skills

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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.

## **DOK**

### **Competency requirements**

The candidate must be able:

To demonstrate good working knowledge of the syllabus outlined above, and;

To demonstrate the ability to perform the required practical skills and correctly whilst in command of a vessel and crew in light to moderate winds and sea conditions during daylight hours within the stated geographical range and weather conditions.

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 assessments

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

### **Housekeeping**

Can demonstrate a balanced and comprehensive provisioning plan based on varied menus and crew preferences, to include quantities needed

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## **Responsibilities of taking over a vessel/Check out**

Describes the checks to be carried out when arriving on an unknown vessel,  
To include location, condition and method of operation of:

Hull and rig checks, Machinery and systems checks, Instrument checks, Safety equipment checks, Spares, tool and ancillary equipment, Fuel, water capacities and vessel specification, mast height and keel depth etc

## **Pilotage and Passage Planning**

Describes the appropriate charts and publications needed and demonstrates a series of passage and pilotage plans, with reasons, to the selected safe anchorages

## **Navigation and Chartwork**

Demonstrates the effects of variation and deviation and how to apply error

Demonstrates a working knowledge of charts, different chart scales and their uses, common chart symbols, dangers to navigation, depths and heights, navigational marks and buoyage, include IALA A and B and Cardinal system

Demonstrates an working knowledge of position lines, transits, DR and EP and plotting, 3 bearing fixes, running fixes and depth contours

Can plot a course to steer to counteract a current, and plot the effect of tide, current and leeway on a vessel

## **Tides and Currents**

Demonstrates a working knowledge of the causes of tides and currents, spring and neap tides, ebb and flow, calculation of tidal heights, including an outline knowledge of primary and secondary ports

Demonstrates the use of Almanacs, tide tables, Tidal atlas, tide diamonds and knows the "Rule of Twelfths"

Understands the effects of tides and currents, and leeway on a vessel

## **Meteorology and Weather**

Describes sources of meteorological information, interpretation of the information received, understands the importance of personal observation

Describes different frontal types and the associated weather expected with each

Describes the land and sea breeze cycle, and understands the effects of Katabatic and anabatic winds

Can identify cloud types and understands the causes of fog and precipitation

Demonstrates obtaining a weather forecast and tidal information and an outline interpretation of a synoptic weather chart

## **Seamanship and Nautical Knowledge**

Tie the following: Round turn and two half hitches, clove hitch, figure of eight, bowline, reef knot, rolling hitch and sheet bend and can demonstrate a whipping and eye splice

Describes the various types of ropes and their uses

Describes the methods and equipment for a basic stern tow and alongside tow

Understands local port regulations and any reporting requirements

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Describes manners and courtesies of mariners in Marinas, anchorages, alongside, and consideration of wake, and pollution control

### **Collision Regulations**

Demonstrates a working knowledge of the Collision Regulations and the responsibility imposed  
Demonstrates good practical working knowledge of lights, shapes and buoyage

### **Anchors and anchoring**

Can describe the use of multiple anchors and the situations when each is likely to be used  
Understands the concept of a kedge anchor

### **Safety and Survival at Sea**

Can describe appropriate actions for all likely emergencies to be encountered within the scope and area of operation of this certificate

### **Sail Endorsement**

Can demonstrate a good working knowledge of the rig, sail controls and their functions, selection of appropriate sails for all conditions, how sails work, and a working knowledge of CE and CLR  
Is able to compensate for both lee and weather helm  
Describes the relationship between true and apparent wind

### **Power Endorsement**

Can identify various types of power vessel, hull forms and can describe the advantages and disadvantages of each,  
Can describe the basic concepts of stability and the factors that affect a power vessels stability

### **Practical Component**

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

#### **Command, Crew Functions and Crew Briefing**

Understands the responsibility and legal position of a charterer  
Demonstrates the responsibility of the skipper and his/her authority  
Can deliver a detailed crew briefing for all vessel evolutions  
Demonstrates delegation of tasks to crew in a competent manner  
Can issue proper commands

#### **Check lists and preparation for sea**

Can demonstrate a comprehensive set of pre departure vessel checks to include:  
Life Jackets, Flares, Liferaft, First Aid Kit, Fire Extinguishers, Safety Harnesses and heads, bilge pumps, water pumps (manual and pressurized), cooker and propane gas, battery selector switch, cabin lights  
Basic Engine checks, fuel, mechanics, instrumentation, and electrical systems check  
Inspection of Hull fittings, Hull and decks,



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Rigging checks (sail boats) – emergency steering equipment  
Stowage for sea, above and below deck  
Dinghy outboard engine care and maintenance  
Demonstrates safe fuelling practices

## **Navigation and Pilotage**

Selection of the appropriate Pilot books, cruising guides, almanac and other required publications  
Consideration to be taken into account, with reasons, when planning a passage  
Demonstrates a safe and appropriate routine for navigation of the vessel when on a passage  
Passage strategy, tidal gates, and optimum departure times, intermediate ports of refuge  
Plans course to steer, and maintains a regular navigational log and plotting using, DR and EP, basic fixing, ETA

## **Electronic Navigation Aids**

Demonstrates the safe and practical use of Echo sounder, Log, GPS and Radar as aids to navigation

## **Weather and Tide information**

Obtains appropriate weather and tide information for the voyage

## **Vessel Handling Sail and Power Vessels**

Demonstrates confident vessel handling in close quarters and confined space,  
Describes steps to be taken for heavy weather preparation, and an outline the tactics that may be employed  
Demonstrates MOB recovery methods and types  
Demonstrates safe approach and pick up of a mooring  
Demonstrates docking alongside and crew control for coming alongside, correct use of springs, fenders and lines, in varying situations, cross wind and currents with and against currents  
Going aground, describes actions and solutions

## **Anchors and anchoring**

Demonstrates selection of safe anchorage, correct approach, consideration of weather and other vessels, coordination of crew, correct scope, monitoring vessel at anchor  
Demonstrates the use of 2 anchors and the situations when required  
Use of trip line, anchor buoy, and clearing a fouled anchor

## **Collision Regulations**

Demonstrates the correct application of the rules while underway on passage

## **Distress and Emergency**

Basic demonstration of appropriate MOB methods and recovery methods allowing for constant visual contact with the victim, and victim recovery

## **Sail Endorsement**

Sending a crew member aloft safely, Bosun's chair, 2 halyards  
Selection of appropriate sails to suit conditions,  
Hoist the sails, set appropriate luff tensions, coil and hang halyards and other lines

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Demonstrate the correct use of halyards, sheets, cunningham/downhaul and outhaul, kicking strap/vang, furling headsails, reefing

Can describe use of storm sails, demonstrate use of spinnaker, MPS and Poling out techniques (if available)

Skipper a sailing vessel and maintain correct trim at all times

Sail an ordered compass course for 10 minutes without varying more than 10 degrees from the ordered heading

### **Power Endorsement**

Steer an ordered compass course for 10 minutes without varying more than 10 degrees from the ordered heading

Demonstrate confident handling with twin engines, under one engine alone

Demonstrate use of Bow thrusters

Demonstrate high speed and slow speed turns and the use and effect of trim tabs

Demonstrate Crash stops and Williamson turns

### **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.