

INTERNATIONAL YACHT TRAINING WORLDWIDE

SMALL POWER BOAT AND RIB MASTER COURSE SYLLABUS, FRAMEWORK AND DEPTH OF KNOWLEDGE

Overview

This is a certificate of excellence for those candidates who wish to be a responsible skipper on board a small power boat or RIB.

IYT Worldwide may accept prior learning from other recognised Yachting establishments for those who wish to apply for recognition towards the Small Powerboat and RIB Master Certificate Course/Examination.

The certificate covers being a responsible captain in charge of a small power boat or RIB up to a maximum length of 80 ft /24 metres and its crew within 20 miles of a safe haven, BUT recommended for fair weather (as guidance wind of less than force 6 and less than 3 metre waves) and mainly daylight hours.

The course may be taken in either planing hulls or displacement hulls (**some training in a planing hull will need to be undertaken**); with either centre console or tiller steering; with inboard/outboard, stern drive or jet drive engines. The vessel will typically be a day boat in which it is intended NOT to accommodate the crew overnight.

Scope: A 3 day Theory and Practical course designed to cover the requirements to meet the Small Commercial Vessel Code and incorporating subjects including: Basic Safety equipment and procedures, Dinghies Theory and Practical, Introduction to VHF, Launch and Recovery, Anchors and Anchoring, Nautical Terminology, Boat Handling under Power, MOB Procedures, Ropework and Basic Collision Regulations (Rules of the Road). The instruction will take place over a period of the whole course emphasizing the practical applications of small powerboat and RIB handling. The course will be covered in classroom and on vessel instruction.

Objective: The expected learning outcome is that the candidate will attain good basic understanding and groundwork in the categories listed above.

Entry Standard: **The Candidate should be 16 years of age or over; 18 if being used commercially.**

Assessment: Will be continuous over the programme. The training is competency based and the candidate will be assessed on demonstrating the correct competencies and knowledge throughout the course. A short written exam and practical assessment will be taken on the last day.

Certificate and/or Documentation: Upon satisfactory completion of the course a Small Powerboat and RIB Master Certificate will be issued.

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Maximum Class Size: 12 Candidates to 1 instructor subject to classroom size.

Candidate/Instructor Ratio: 12 to 1 in class and 5 to1 on the water.

Instructors: Instructors will be appropriately qualified to IYT Worldwide requirements.

Teaching Facilities and Equipment:

Facility: Approved by IYT Worldwide:
Member School's classrooms
Approved small powerboat and/or RIB

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 – to be prepared

Textbook(s): IYT Worldwide Textbook
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 Small Powerboat and Rib course should be taught using the syllabus and DOK 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 second day of the course.

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

Candidates should meet the minimum competencies defined in the Depth of Knowledge section below.

Re-Testing Policy

Students not passing the initial written exam will be required to sit a second written exam. A grade of 70% must be attained on the second written exam to pass.

Where a candidate fails an examination, they will be allowed one resit without the need to retake the training course provided that the resit is taken within 6 months of the failed attempt. Should the candidate fail the resit it will be necessary for the entire training course to be retaken prior to a further attempt.

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Syllabus and 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/Syllabus

Competency requirements

The candidate must be able:

To demonstrate an outline knowledge of the theory syllabus outlined below, and;

To demonstrate the ability to perform the required practical skills safely and correctly whilst in command of a small powerboat or RIB vessel and crew in light to moderate wind and sea conditions, during daylight hours.

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 an outline knowledge and understanding of the syllabus.

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 syllabus.

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Syllabus – Practical and Theory

Chain of Command, Etiquette & Crew Responsibilities

Demonstrates knowledge and understanding of command and the role of all crew

Understands the issues concerning the Safety of vessel and crew

Safety & Equipment

Demonstrates correct use of life saving appliances and life saving equipment including:
Life Jackets, Flares, Liferaft, First Aid Kit, Fire Extinguishers, Safety Harnesses, VHF Radio

Demonstrates a knowledge of emergency duties in event of a fire, other emergency or Man overboard.

Introduction to VHF

Understands Basic Radio Theory, Subsidiary Equipment, Common Radio Terms and regulations/Licensing Requirements

Is familiar with VHF Radio Equipment and demonstrates correct Radio Procedures/Emergency Radio Communications

Dinghy Theory and Practical

Can differentiate between dinghy Types and their comparative advantages and disadvantages

Understands the basic types of Engines, outboard, 2 stroke (4 stroke, Inboards, Jets)

Demonstrates safe handling of Engines and fuelling,

Has a general knowledge of the Safety equipment and spares to be carried

Can demonstrate basic maintenance and Safety checks

Understands basic dinghy operations, load constraints, weight distribution, stability, balance

Understands dinghy handling, with oars, engine, steering by compass,

Understands the importance of weather, and whether to sail or not to sail

Safety – Lookouts near swimmers, keeping a lookout, speed in anchorages, launch and recovery, stowage, Transfer to and from dinghy to vessel, and dinghy to dock, coming alongside, beaching and launching from beach and handling with wind and/or current effects.

Demonstrates ability to carry out visual checks and aids to monitoring engine condition, is aware of the contents of Tool kit, spare parts and service items

Launching and Recovery

Demonstrates safe launch and recovery procedures, understands the dangers of using launch ramps, control of trailer, ramp etiquette and other launching procedures from a larger vessel.

Anchors and Anchoring

Demonstrates a basic knowledge of different types of anchor and their advantages/disadvantages, correct scope for conditions

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Nautical Terminology

Demonstrates a knowledge of terms and definitions:

Types of vessels, Parts of vessels and equipment names

Relative direction, fore/aft, bows/stern, ahead/abeam/astern, port/starboard, windward/leeward

Boat Handling Under Power

Demonstrates and understands basic manoeuvring, taking into account the effects of wind, tide and currents, Propeller effect when in gear ahead and astern, Multi engines, effects of single engine and both engines.

Man Overboard Procedures and emergencies

Demonstrates proper procedures for Man overboard

Ropework

Demonstrates common knots, bends and hitches:

Reef knot, Clove hitch, Bowline, Sheet bend, Double sheet bend, Rolling hitch, Round turn and two half hitches and Figure of eight

Demonstrates the safe and proper procedures for Handling of mooring ropes and wires

Understands the care, use and storage of ropes and wires

Basic Navigation and Chart work

Demonstrates:

Compass use

Chartwork/Plotting Instruments, Large and small scale, what they are used for, Distance, Symbols

Other publications, DR, Bearings and Fix

Understands the effects of Tides and Currents and basic calculations required

The sources and the basic information required to safely plan a passage and an understanding of how weather factors will affect the decision of whether to sail or not.

Basic Collision Regulations (Rules of the Road)

Understands the basic rules for Collision avoidance, between sailing vessels, power and sailing vessels and power vessels and the need to keep right (starboard) side in channels

Demonstrates a basic knowledge of buoys, beacons and buoyage systems

Demonstrates a basic knowledge of lights, shapes and sound signals