

RYA Powerboat Level 2 Course Syllabus

The purpose of this course is to teach boat handling and seamanship in powerboats.

The course may be conducted in a variety of boat types, both planning and displacement, and the certificate issued will be endorsed to show the type(s) of boat in which the training took place.

Course Duration: 2 days - 9am to 5pm

PRACTICAL – Section A

Launching and Recovery

Knowledge of:

- Use of a trailer or launching trolley
- Consideration of launching and sea conditions, including hazards and obstructions.
- Number of persons required to launch/recover
- Construction, width, and condition of slipway
- Steep/slippery slipways, beach launching, lee shores
- Care of trailer bearings, hitch, lashings, ties, lights, and winch

- Trailer parking

Can:

- Prepare the boat, lines, fenders, safety equipment, fuel tanks, lines, and secure gear on board.

Boat Handling

Knowledge of:

- Loading: effect on handling and performance, effect on balance and trim, CE plate and manufacturer's recommendation.

- Displacement boats: handling ahead and astern, carrying away.

Understands:

- Crew members: minimum number in high-speed craft, keeping a look-out

- Awareness of other water users, including effect of wash

- Steering, controls, effect of current or tidal stream

- High speed manoeuvring: planning, trim tabs, and power trim

- Planning boats: propeller angle and immersion, shallow drive, high/low speed handling, tiller/console steering.

Can:

- Carry out pre-start checks, engine starting and stopping

- Demonstrate the use of an appropriate length of kill cord, which is always to be used

- Carry out low speed manoeuvres including turning in a confined area, effect of wind on bow

- and holding off. Demonstrate an awareness of the danger of flooding when going astern.

- Carry out high speed manoeuvres including S-turns and U-turns.

Securing to a buoy

THEORY – Section B

Knowledge of:

- Types of craft: advantages and disadvantages of different hull forms with respect to sea keeping ability
- Engines and drives: advantages and disadvantages of outboard, inboard and outdrive units, single and twin screws, choice and use

of fuels

- Siting of fuel tanks, fuel lines, batteries, wiring and fire extinguishers

- Routine engine maintenance checks, basic fault diagnosis

- Close down procedure

- Advice to inland drivers about coastal waters

- Use and limitations of GPS

Understands:

- Preparation of mooring warp
- Use of a boat hook
- Method of approach
- Crew communication
- Making fast
- Procedure when overshooting

Can:

- Approach and secure a buoy

Anchoring

Understands:

- Method of approach in various conditions
- Taking way off
- Crew communication • Check holding
- Depth of water, holding ground, scope required

Knowledge of:

- Types of anchors
- Stowage and attachment to boat
- Preparation of anchor, chain, and warp
- Weighing anchor

Can:

- Approach and anchor correctly

- Weigh anchor correctly

Leaving and coming alongside

Understands:

- Preparation and use of painter, lines and fenders, attachment to boat, stowage under way

- Speed and angle of approach

- Wind effect

- Method of approach in tidal stream or current

Can:

- Make fast alongside

- Use springs

- Leave – ahead or astern

Man Overboard

Knowledge of:

- Recovery of man overboard

Can:

- Take immediate action

- Observe the man overboard

- Carry out the correct return with awareness of propeller

- Approach and recover the man in the water

Understands:

- Awareness of other water users
- Communication with other craft – hand and sound signals
- Disabled craft
- Emergency action preventing sinking
- Adrift – alternative means of propulsion
- Towing and being towed
- Fire precautions and fire fighting
- Rope work
- Distress signals and the Mayday call

Can:

- Apply IRPCS, principally rules 5,7,8,9, 12-19

- Application of local byelaws, especially around commercial shipping
- Sources of weather information

COASTAL – Section C**Knowledge of:**

- Pilotage and passage planning
- CG66 Small Craft Safety Scheme

Understands:

- Charts, chart symbols, buoyage systems
- Tides and tidal streams

Can:

- Use steering and hand bearing compasses
- Apply Section A on coastal waters