



## **RYA Powerboat level 2 course Syllabus**

### **PRACTICAL**

#### **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/slippy slipways, beach launching, lee shores. Care of trailer bearings, hitch, lashings, ties, lights and winch

##### Can:

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

Carry out pre-start checks, engine starting and stopping • Demonstrate the use of an appropriate length kill cord at all times. 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.

#### **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 maneuvering: planing, trim tabs and power trim.

#### **Planing boats:**

Propeller angle and immersion, shallow drive, high/low speed handling, tiller/console steering

##### Can:

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



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### **Securing to a buoy**

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 anchor, 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 over board techniques**

Knowledge of:

Recovery of man overboard



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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

### **Theory**

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 screw boats, 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, Application of local bye laws, especially around commercial shipping, Sources of weather information

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

### **COASTAL**

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

*This information was taken from the RYA powerboat log book.*