



## **RYA Intermediate – Powerboat day cruising**

**Aim:** To teach powerboating up to the standard required to complete a short coastal passage by day.

**Ratio:** 1:3 (Instructor: Students)

**Assumed knowledge:** Candidates should be competent to the standard of National powerboat certificate Level 2 with coastal endorsement.

It is strongly recommended that candidates hold a first aid certificate and a VHF operator's certificate.

**Duration:** 2 days

**Minimum age:** 16

### **SECTION A**

#### **Theory**

##### **Planning a day cruise**

##### ***Knowledge of:***

- Navigation
- True and magnetic bearings
- Bearing and distance
- Chart symbols
- Tidal diamonds and tidal streams
- Use of pilot books
- Position lines
- Use of marina locks

##### ***Understands:***

- Latitude and Longitude
- The principles of GPS
- Sources of forecast information and the interpretation of forecasts

##### ***Can:***

- Use a plotting instrument and plot a course to steer (CTS)
- Work out tidal heights for standard ports using a tidal curve
- Interpret lateral and cardinal buoyage
- Implement IRPCS, in particular rules 5,7,8,9,13-17,23
- Use GPS waypoint navigation and determine XTE, SOG, COG, BTW, DTW
- Use a laminated chart afloat
- Use pilotage to enter an unfamiliar port by day
- Explain how to make a VHF emergency call



## **SECTION B**

### **Practical**

The aim of the practical session is to put into practice the theory detailed above and to complete a passage, which shall include:

#### **Boat preparation**

##### *Understands:*

- The importance of protective clothing and safety equipment
- The minimum level of equipment for the boat
- Considerations of equipment required for longer passages
- Correct stowage of equipment

#### **Boat handling**

##### *Knowledge of:*

- Effect of waves
- Rougher conditions
- Awareness of other water users
- Mooring stern-to between posts or Med style

##### *Can:*

- Demonstrate awareness of wind and tide
- Moor alongside, in a marina berth
- Demonstrate the use of an appropriate length kill cord at all times

#### **Pilotage**

##### *Can:*

- Demonstrate a practical application of techniques for pilotage in local waters

#### **Passage making**

##### *Understands:*

- The need for pre-planning, including advice in the event of having to return at night

##### *Can:*

- Apply the lessons learnt in the theory section and successfully complete a practical passage
- Fix position by traditional and electronic means

#### **Man overboard**

##### *Understands:*

- Techniques for picking up a man overboard in differing conditions

##### *Can:*

- Pick up a man overboard