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| **RYA Advanced Powerboat Day and Night course** |
| **Aim:** To teach boat handling, seamanship, pilotage and navigation up to the standards required to drive a planing powerboat safely by day and night in tidal coastal waters with which the candidate may be familiar. The ratio of students to Instructors should not exceed 3:1. The course will be conducted on a planing powerboat with lights conforming to the IRPCS. Students must wear a minimum 150 Newton lifejacket with a MCA approved light for the night exercise.  **Assumed knowledge:** Candidates should be competent to the standard of the Intermediate Powerboat Certificate with a thorough knowledge of navigation and chartwork to the level of the RYA Coastal Skipper/Yachtmaster Theory Certificate  You are required to hold a First Aid Certificate and a VHF operator’s certificate.  Taken from the RYA Powerboat Logbook G20/13   |  |  | | --- | --- | | **Practical**  **Preparation for sea**  **Can:**  Prepare the powerboat  Carry out fuel and engine checks  Stow and secure gear  **Boat handling**  **Knowledge of:**  Differences for a twin engine vessel  **Understands:**  The importance of boat control in waves and adequate seating to minimise the possibility of back injury  Characteristics of various hull forms and propeller configurations  Action to be taken in rough weather  **Can:**  Demonstrate a practical understanding and correct use of power trim and trim tabs  Demonstrate an awareness of the effects of wind and tide when manoeuvring, including:-  Steering to transits and in buoyed channels  Turning in a confined space  Berthing in various conditions of wind and tide  Picking up and leaving a mooring buoy  Demonstrate the use of an appropriate length kill cord at all times  **Passage making and responsibility as skipper**  **Understands:**  The importance of pre- trip planning  Planning and making coastal passages, taking into account the relevant navigational hazards, the type of boat and the strengths of the crew | Chart plotters and radar, their advantages and limitations  **Can:**  Organise the navigation, safety and welfare of the crew during a powerboat passage  Navigate at higher speed using a range of techniques  Use electronic navigational equipment for planning and undertaking a passage, including the use of waypoints, routes and XTE, SOG, COG, BTW, DTW  **Pilotage**  **Can:**  Carry out pilotage plans and pilotage for entry into or departure from harbour  Use leading and clearing lines, transits, back bearings and soundings as aids to pilotage  Use GPS and understand its limitations in pilotage  Navigate using soundings  **Meteorology**  **Understands:**  Terms used in shipping forecasts, including the Beaufort scale, and their significance to small craft  Sources of forecast information and interpretation of forecasts including synoptic charts  The significance of meteorological trends  **Can:**  Interpret a synoptic chart  Use and interpret forecasts to make decisions about passages | |



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| **Rules of the Road**  **Can:**  Apply the International Regulations for Preventing Collisions at Sea  **Use of engines**  **Knowledge of:**  How to change a propeller  Propeller diameter and pitch  Propeller ventilation and cavitation  **Understands:**  Checks to be made before starting, during running, and after stopping for diesel and petrol engines  Periodic checks on engines and electrical system including spark plugs, water filters and pump impellers  Transmission belts  Spares to be carried  **Emergency situations**  **Understands:**  Correct action to take in emergency situations  Fire prevention and fighting  Hull damage and watertight/integrity  What to do in a medical emergency  Towing and being towed  Helicopter rescue procedures  Issue distress by all available means  Search patterns  The dangers of Cold Shock and Immersion Hypothermia  **Can:**  Pick up a man overboard in differing conditions  **Night cruising**  **Can:**  Take charge of a powerboat at night, including leaving and entering a harbour  Demonstrate ability at keeping a proper lookout and identifying lit and unlit marks at night |  |