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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 CertificateYou are required to hold a First Aid Certificate and a VHF operator’s certificate.Taken from the RYA Powerboat Logbook G20/13

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| **Practical****Preparation for sea****Can:**Prepare the powerboatCarry out fuel and engine checksStow 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 injuryCharacteristics of various hull forms and propeller configurationsAction to be taken in rough weather**Can:**Demonstrate a practical understanding and correct use of power trim and trim tabsDemonstrate an awareness of the effects of wind and tide when manoeuvring, including:-Steering to transits and in buoyed channelsTurning in a confined spaceBerthing in various conditions of wind and tidePicking up and leaving a mooring buoyDemonstrate the use of an appropriate length kill cord at all times**Passage making and responsibility as skipper****Understands:**The importance of pre- trip planningPlanning 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 passageNavigate at higher speed using a range of techniquesUse 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 harbourUse leading and clearing lines, transits, back bearings and soundings as aids to pilotageUse GPS and understand its limitations in pilotageNavigate using soundings**Meteorology****Understands:**Terms used in shipping forecasts, including the Beaufort scale, and their significance to small craftSources of forecast information and interpretation of forecasts including synoptic chartsThe significance of meteorological trends**Can:**Interpret a synoptic chartUse 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 propellerPropeller diameter and pitchPropeller ventilation and cavitation**Understands:**Checks to be made before starting, during running, and after stopping for diesel and petrol enginesPeriodic checks on engines and electrical system including spark plugs, water filters and pump impellersTransmission beltsSpares to be carried**Emergency situations****Understands:**Correct action to take in emergency situationsFire prevention and fightingHull damage and watertight/integrityWhat to do in a medical emergencyTowing and being towedHelicopter rescue proceduresIssue distress by all available meansSearch patternsThe 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 harbourDemonstrate ability at keeping a proper lookout and identifying lit and unlit marks at night |  |