

RYA Radar Course

The objective of this 1 day RYA Radar course is to give yachtsmen an understanding of the use of small boat Radar as an aid to navigation and collision avoidance. No pre-knowledge of Radar is required.

At YachtCom we are familiar with the Raymarine (Raytheon) Series of Radar and the JRC Radar1000. We use a real RAYMARINE C120 radar during the course and look at MARP and AIS collision avoidance aids.

If students have another type of Radar fitted to their yachts they are encouraged to bring along the manual.

Students will learn: -

- ▶ How to operate small boat Radar
- ▶ Collision avoidance and Radar navigation skills
- ▶ General safety precautions in using equipment
 - Basic understanding of radar wave propagation
 - Conditions giving rise to abnormal propagation
- ▶ Radar set components
 - Set up procedure, functions and correct use of controls
- ▶ Target definition and discrimination
 - Pulse length and beam width, target characteristics, false echoes
 - Passive and active Radar reflectors
- ▶ Types of Radar display
 - Stabilised and non-stabilised displays
- ▶ Appreciation of IRPCS
 - Actions to be taken in reduced visibility
- ▶ Collision Avoidance
 - Plotting rules and techniques
 - Plotting Aids - Use of Mini Automatic Radar Plotting Aids (MARPA)
 - Collision avoidance and vessel identification using Automatic Identification System (AIS)
- ▶ Use of Radar as an aid to navigation
 - Conspicuous targets needed for positive identification
 - Parallel indexing
- ▶ Chart plotters - Raymarine and PC based systems
- ▶ Accuracy in range and bearing

At the start of the course students will be given the RYA Radar course notes. On course completion students will receive a RYA Radar course completion certificate.