

Electronic Navigation Seminar

The majority of skippers use electronic navigation on board yachts these days. It has a whole range of advantages over the traditional navigation, for example:

- The equipment is relatively easy to operate,
- A lot of information is available with the click of a few buttons - and that very fast.
- Updating the chart software has become quite simple.

Nevertheless, electronic navigation on board leisure boats and yachts also has its limitations, which every skipper should be aware of, for example jamming, spoofing and equipment failure.

This morning seminar serves as an introduction to the subject electronic navigation, and is ideal for skippers and boat-owners who have discovered boating as a new hobby, and who would like to use electronic navigation to guide them safely on the water to their destinations.

The seminar commences at 10:15 and finishes at about 13:30. A book can be purchased for €20,- during the seminar.

The following subjects are presented with a video projector:

- Introduction; The advantages and limitations of electronic navigation
- NMEA/WiFi: The connections between the equipment
- Global Navigation Satellite System (GNSS, GPS, SBAS, etc.)
- The electronic chart, vectors and symbols
- AIS: Typical symbols on the screen; Evaluating the AIS information
- Radar: Collision-avoidance using MARPA, Guard zones and Doppler.
- AutoPilot, Electronic Compasses, Echo sounder, etc.

During the practical part of the course, every participant uses a plotter display unit (Raymarine 12" Axiom display), where he/she can practice the following:

- Evaluating the electronic chart, with all its symbols.
- Evaluating the information regarding vectors, tides and currents, etc.
- Placing a waypoint, setting up a route, Auto-routing.
- AIS overlay: Typical AIS symbols on the screen; Evaluating the AIS information
- Radar: Collision-avoidance using MARPA, Guard zones and Doppler.
- AutoPilot: Heading mode, Waypoint mode, Search modes
- The numerous alarm functions available to protect the boat
- Echo-sounders



The instructor spent years in the South-African, British and Canadian merchant navies, followed by 25 years in the Radar industry ashore. He holds these seminars in various European countries.