



Course Code 44-21BCD17-4

## Basic Navigation Course (BNC)

### Course Overview

The Basic Navigation Course aims to introduce the basic concepts of inshore navigation in an accessible format.

Delegates will learn about harbour entry and departure pilotage including buoyage and a basic understanding of the International collision regulations, right of way! Terms used in navigation; steps of voyage planning and underway navigation; earth's coordinate system and its use to specify location; how direction can be measured on the surface; conversion of direction (true, magnetic, compass and relative) will be covered.

### Who should attend?

The course offers a great introduction to navigation and safety awareness for new or inexperienced, individuals and those wanting to refresh their skills. The course is also appropriate for:

- First responders (at sea response)
- Emergency operations room personnel
- ICS general staff
- Emergency management team members
- Emergency response team members
- Marine department personnel

### Topics covered

The objectives of the course are to achieve a basic understanding of:

- Navigational aids - Basic understanding of the Navigation lights and shapes displayed by vessels at sea

- Latitude and longitude - This module will look at the way latitude and longitude is used in navigation
- The marine magnetic compass – Components of compass error; concept of variations and deviation and distinctions between compass north, magnetic north, and true north; True to Compass and Compass to True computations
- The nautical chart - characteristics of nautical charts, particularly Mercator projections; features on the chart
- Time speed and distance - This module will explain how to solve problems involving time, speed, and distance
- Plotting on the nautical chart - Plotting positions in terms of latitude and longitude, basic knowledge of chart symbols, rapid and reliable measurement of direction, distance, and location on Mercator nautical charts
- Dead Reckoning (DR) - working knowledge of dead reckoning methods including plotting, labelling, measuring, and determining DR positions
- Set and drift - What's pushing us off our DR course? What can do this? Currents, wind, gravitational vortexes, you name it. This module explains what and why, and how to compensate during and prior to a passage

**Duration : 5 Days (40 hours in total, assuming an 8-hour day)**

