

# 'Pelagic Australis' Delivery – Ocean Training Syllabus

## 5 Days Duration

### 1. Topic: **Celestial Navigation**

Duration: 2 Days

Location: Classroom

Overview;

*To learn the basic skills required to Navigate a vessel using a Sextant.*

Content:

- Introduction, how it works
- The Sextant
- Time
- The Nautical Almanac
- Use of Sight Reduction Tables
- The Meridian Passage
- Plotting
- Great Circle Sailing
- Other Celestial Objects

### 2. Topic: **Meteorology**

Duration: 1 Day

Location: Classroom

Overview:

*Discussion of general world-wide weather patterns including sources of weather information and weather routing.*

Content:

- Global weather patterns
- Effects of land on weather
- Routing Charts
- Typical South Atlantic / Falkland weather patterns
- Tropical Revolving Storms
- Grib Data & modelling
- Weatherfax & Navtex for forecasting

**3. Topic: Electronic Navigation & Communications**

Duration: 1 Day

Location: Classroom

## Overview:

*Discussion of modern electronic Navigational Aids, looking at uses and limitations. Looking at all communication methods for vessels within the GMDSS scheme as well as other general communication systems that can be used at sea.*

## Content:

## Navigational Aids

- GNSS (GPS, Glonass, Galileo, Compass)
- Chartplotters – Electronic Chart Types
- AIS
- Radar
- Depthsounders

## Communications

- GMDSS (Global Maritime Distress & Safety System)
- VHF
- Single side Band (SSB) (MF / HF)
- Digital Selective Calling (DSC)
- Inmarsat – Fleet 77 / Sat C
- Sat Phones (Iridium)
- EPIRBS & PLB's
- SARTS & AIS SARTS
- Other communication equipment (Iridium etc.)

**4. Topic: Yacht Husbandry**

Duration: 1 Day

Location: Classroom / On-Board

## Overview:

*A general look at safety issues / preparation requirements for a vessel that is making long distance cruises.*

## Content:

- Safety Briefing (from the Skipper)
- General preparation / Checks
- Chafe management
- Victualling
- First Aid requirements for Ocean Trips
- Engine checks / Fuel considerations
- Watch Systems
- Steering Systems
- Waste Management