

Navigation for non-navigator

Special Workshops
Vienna (Austria)
13 - 17 Jan 2025

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The image features a chessboard with several pieces. In the foreground, a large gold king piece stands prominently on a dark square. To its left, a silver pawn is on a light square. Further left, another silver pawn is on a dark square. The background consists of a series of concentric, light gray circles that create a sense of depth and focus on the king piece. The overall aesthetic is clean and professional.

Navigation for non-navigator

Ref: 321570_141159 **Date:** 13 - 17 Jan 2025 **Location:** Vienna (Austria) **Fees:** 4400 **Euro**

Introduction

The course then describes the nautical publications and how to gather important information required during sailing, especially terrestrial coordinates features. Examine how a navigator used the nautical chart to plot courses and review daily works. Nautical charts are essential for marine navigation, the use of the title block, datum, and soundings. Study the difference between the two latitudes and learn how to measure the meridional parts of a given latitude. We Summarise the natural scale and use it to determine the relationship between a given distance on the chart and the earth. Recognize the symbols and abbreviations that can be used on charts and consciously avoid charted dangers during passage planning. Deduce how you can group the symbols and abbreviations under the required headings. You will learn about the features of the notice to mariners, light list, tide and current tables, and the coast pilots.

Course Objectives of Navigation for non-navigator

- Identify the equatorial and polar radii of the shape of the earth
- Discuss the application of a great circle and the small circle
- Explain the tilt of the Earth's axis as well as the effect of the tilt
- Describe the measurement of latitude and parallels of latitude
- Analyse the significance of the referential meridian and prime meridian
- Explain the measure and significance of a geographical statute and nautical mile
- Describe the Earth's axis rotation as well as the process of location directions
- Explain the working of a magnetic compass for navigation
- Explain the significance and application of position lines and positions
- Outline the various methods of plotting positions on a chart

Navigation for non-navigator Course Outlines

Day 1

Shape of the Earth

- Shape of the Earth-Learning Outcomes
- Introduction to shape of the Earth
- Earth Axis
- Prime Meridian
- Cable and Knot

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- Shape of the Earth - Lesson Summary

Day 2 **Nautical Charts**

- Nautical Charts - Learning Outcomes
- Introduction to Nautical Chart
- Meridional parts and nautical scale
- Symbols and abbreviations used on admiralty charts
- Lights and other publications
- Nautical Charts - Lesson Summary

Day 3 **Axis of Rotation**

- Axis of rotation - Learning Outcomes
- Rotation of the earth
- Lines of position fixes
- Method of position fixing
- Vertical and Horizontal sextant angles
- True course and parallel sailing
- Use of Traverse table
- Axis of rotation - Lesson Summary

Day 4 **Use of Charts**

- Use of charts - Learning Outcomes
- Chart work
- Tidal Stream and Geographical Range
- Last Sighting Distances
- IALA Buoyage system
- Passage Planning
- Execution and Monitoring
- Use of Charts - Lesson Summary

Day 5 **The Mariner Compass Part 1 - Part 2**

- The Mariners Compass as our most accurate instrument of direction
- General magnetism, magnetic pole
- Compass errors and correction of courses and bearings
- Conversion of courses and bearings
- Swinging the boat to establish compass error
- Uses of the land held compass

A graphic of a chessboard with several chess pieces (a king, a pawn, and a knight) on it, set against a background of concentric circles. The text 'UK Training PARTNER' is overlaid on the right side of the board.

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