



*Training Course:  
Navigating Hydrographic Data: A  
Comprehensive Training Program*

*21 - 25 April 2025  
Casablanca (Morocco)  
New Hotel*

# Training Course: Navigating Hydrographic Data: A Comprehensive Training Program

Training Course code: MM235306 From: 21 - 25 April 2025 Venue: Casablanca (Morocco) - New Hotel Training Course  
Fees: 5100 € Euro

## Introduction

Welcome to the 5-day training program on the Production of Electronic Navigational Charts ENC, Paper Nautical Charts PNC, and Coastal Zone Management Charts CZMC. Nautical charts are indispensable tools for safe navigation at sea, and their accurate production is vital for ensuring maritime safety and environmental management. This training program aims to equip participants with the knowledge and skills necessary to produce high-quality nautical charts that meet international standards and regulatory requirements.

## Objectives

- Provide participants with a comprehensive understanding of nautical charting principles and practices.
- Familiarize participants with the various stages of chart production, including data collection, compilation, design, validation, and updating.
- Introduce participants to the tools, software, and techniques used in nautical chart production.
- Ensure participants are proficient in applying International Hydrographic Organization IHO standards and guidelines.
- Enable participants to produce accurate and reliable ENC, PNC, and CZMC products that support safe navigation and coastal management.

## Target Audience

This training program is designed for:

- Hydrographic surveyors and cartographers involved in nautical chart production.
- Maritime safety professionals responsible for ensuring the accuracy and reliability of nautical charts.
- Government agencies and organizations responsible for coastal zone management and environmental protection.
- Navigation officers, mariners, and other stakeholders interested in understanding the process of nautical chart production.
- Students and researchers seeking to gain insight into the field of hydrography and marine cartography.

## Training Program Outline

### Day 1: Introduction and Overview

- Introduction to Nautical Charting
- Importance and Applications

- Historical Evolution
- Legal and Regulatory Framework
- Introduction to Chart Production Tools and Software

#### Day 2: Data Collection and Compilation

- Sources of Hydrographic Data
- Data Acquisition Methods
- Data Processing and Compilation Techniques
- Quality Control Procedures

#### Day 3: Cartographic Design and Compilation

- Principles of Cartographic Design
- Scale and Generalization
- Compilation Process
- Application of IHO Standards

#### Day 4: Validation, Verification, and Updating

- Validation Criteria
- Verification Techniques
- Error Correction and Updating Procedures
- Version Control

#### Day 5: Specialized Chart Products and Practical Exercises

- Specialized Chart Products
- Case Studies and Practical Examples
- Q&A and Wrap-up

## Registration form on the Training Course: Navigating Hydrographic Data: A Comprehensive Training Program

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

### Delegate Information

Full Name (Mr / Ms / Dr / Eng): .....  
 Position: .....  
 Telephone / Mobile: .....  
 Personal E-Mail: .....  
 Official E-Mail: .....

### Company Information

Company Name: .....  
 Address: .....  
 City / Country: .....

### Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....  
 Position: .....  
 Telephone / Mobile: .....  
 Personal E-Mail: .....  
 Official E-Mail: .....

### Payment Method

- Please find enclosed a cheque made payable to Global Horizon
- Please invoice me
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### Easy Ways To Register

Telephone:  
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or training@gh4t.com

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