



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

*21 - 25 December 2025
Sharm El-Sheikh (Egypt)
Sheraton Sharm Hotel*

Training Course: Navigating Hydrographic Data: A Comprehensive Training Program

Training Course code: MM235306 From: 21 - 25 December 2025 Venue: Sharm El-Sheikh (Egypt) - Sheraton Sharm Hotel
Training Course Fees: 4850 € 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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