



*Training Course:
Managing Marine Spatial Data: Collection,
Processing, Archival, and Retrieval*

21 - 25 December 2025

Cairo (Egypt)

Holiday Inn & Suites Cairo Maadi, an IHG Hotel

Training Course: Managing Marine Spatial Data: Collection, Processing, Archival, and Retrieval

Training Course code: MM235297 From: 21 - 25 December 2025 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 4200 € Euro

Introduction:

The "Collection, Processing, Archival, and Retrieval of Marine Spatial Data" training program is designed to provide participants with comprehensive knowledge and skills in managing geographic information related to marine environments. Marine spatial data plays a crucial role in various applications, including marine navigation, environmental monitoring, resource management, and coastal planning. This program will cover key principles, methodologies, and best practices for collecting, processing, archiving, and retrieving marine spatial data effectively.

Target Audience:

- Hydrographic surveyors
- GIS Geographic Information Systems professionals
- Environmental scientists and researchers
- Marine resource managers and planners
- Government agencies responsible for maritime management and environmental protection
- Marine industry professionals involved in offshore activities

Objectives:

Upon completion of the training program, participants will be able to:

- Understand the importance and characteristics of marine spatial data.
- Identify sources and methods for collecting marine spatial data.
- Apply techniques for processing and analyzing marine spatial data.
- Implement best practices for archiving and managing marine spatial data.
- Develop strategies for retrieving and utilizing marine spatial data for decision-making and planning purposes.

Outlines:

Day 1: Introduction to Marine Spatial Data

- Overview of marine spatial data: definition, types, and characteristics
- Importance of marine spatial data in various applications
- Introduction to GIS Geographic Information Systems and its role in managing spatial data
- Overview of marine spatial data standards and formats
- Case studies highlighting the use of marine spatial data in different industries

Day 2: Collection of Marine Spatial Data

- Sources of marine spatial data: remote sensing, hydrographic surveys, AIS Automatic Identification System, bathymetric data, etc.
- Planning and designing marine spatial data collection projects
- Equipment and tools used in marine spatial data collection
- Field data collection techniques and procedures
- Hands-on exercises in collecting marine spatial data using relevant tools and technologies

Day 3: Processing and Analysis of Marine Spatial Data

- Principles of spatial data processing and analysis
- Data preprocessing techniques: cleaning, filtering, and integration
- Spatial analysis techniques: interpolation, overlay analysis, buffering, etc.
- Introduction to spatial statistics and modeling
- Case studies and practical exercises in processing and analyzing marine spatial data

Day 4: Archival and Management of Marine Spatial Data

- Principles of data archival and management
- Standards and best practices for organizing and storing marine spatial data
- Introduction to spatial databases and data management systems
- Metadata creation and documentation for marine spatial data
- Strategies for ensuring data integrity, security, and accessibility

Day 5: Retrieval and Utilization of Marine Spatial Data

- Techniques for retrieving and accessing marine spatial data
- Data visualization and presentation techniques
- Application of marine spatial data in decision-making, planning, and policy development
- Integration of marine spatial data with other datasets and platforms
- Future trends and advancements in marine spatial data management and utilization

Registration form on the Training Course: Managing Marine Spatial Data: Collection, Processing, Archival, and Retrieval

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