



*Training Course:
Marine Future: HRD for Hydrography & Marine
Sciences*

31 August - 4 September 2025

Cairo (Egypt)

Holiday Inn & Suites Cairo Maadi, an IHG Hotel

Training Course: Marine Future: HRD for Hydrography & Marine Sciences

Training Course code: MM235299 From: 31 August - 4 September 2025 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 4200 € Euro

Introduction

The ocean plays a vital role in regulating our planet's climate, supporting diverse ecosystems, and providing essential resources. As we face increasing challenges like climate change and ocean acidification, the need for skilled professionals in hydrography and marine sciences becomes ever more critical. This 5-day training program aims to empower individuals working in these fields by equipping them with the knowledge, skills, and tools to contribute effectively to a sustainable marine future.

Objectives

- Enhance participants' understanding of key concepts and principles in hydrography and marine sciences.
- Develop essential technical skills for data collection, analysis, and interpretation.
- Foster leadership and communication skills for effective collaboration and knowledge sharing.
- Explore innovative approaches and emerging technologies in the marine sector.
- Equip participants with the tools and resources to address contemporary challenges facing the ocean.

Target Audience

This program is designed for professionals working in various fields related to hydrography and marine sciences, including:

- Hydrographers and surveyors
- Marine scientists and researchers
- Oceanographers and oceanographers
- Policymakers and government officials
- Environmental consultants and NGOs
- Maritime industry professionals
- Students and early career researchers

Training Program Outline

Day 1: Fundamentals of Hydrography

- Introduction to hydrography: principles, objectives, and applications
- Basics of marine surveying techniques and equipment
- Data acquisition methods: multibeam echosounder, single-beam echosounder, side-scan sonar
- Practical session: familiarization with survey equipment and data collection procedures

Day 2: Marine Cartography and GIS

- Introduction to marine cartography: concepts, standards, and symbology
- Basics of Geographic Information Systems GIS in marine applications
- Spatial data management and analysis techniques
- Introduction to cartographic software e.g., ArcGIS, QGIS

Day 3: Remote Sensing in Marine Environments

- Overview of remote sensing technologies in marine sciences
- Types of remote sensing platforms: satellites, aerial photography, drones
- Image processing techniques for marine applications
- Case studies: remote sensing applications in coastal monitoring and marine resource management

Day 4: Advanced Topics in Hydrography and Marine Sciences

- Advanced surveying techniques: bathymetric lidar, sub-bottom profiling
- Marine data processing and quality control
- Integration of hydrographic and oceanographic data
- Introduction to marine spatial planning and ecosystem-based management
- Case studies: interdisciplinary approaches to marine research and management

Day 5: Current Trends and Best Practices

- Emerging technologies in hydrography and marine sciences
- Best practices in data management, documentation, and dissemination
- Professional development opportunities and certification programs
- Panel discussion: industry perspectives and future directions

Registration form on the Training Course: Marine Future: HRD for Hydrography & Marine Sciences

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