



*Training Course:
Mastering Hydrography: Advanced Training in
Modern Marine Sciences*

*28 September - 2 October 2025
Cairo (Egypt)
Holiday Inn & Suites Cairo Maadi, an IHG Hotel*

Training Course: Mastering Hydrography: Advanced Training in Modern Marine Sciences

Training Course code: MM235307 From: 28 September - 2 October 2025 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 4200 € Euro

Introduction

Hydrography and marine sciences play a vital role in understanding and managing our oceans and coastal environments. With the advancement of technology, modern equipment has revolutionized the way we conduct hydrographic surveys and marine research. This training program is designed to provide participants with the knowledge and skills necessary for planning and executing hydrographic and marine sciences projects using state-of-the-art equipment.

Objectives

- Introduce participants to the fundamentals of hydrography and marine sciences, including the importance and applications of these disciplines.
- Familiarize participants with modern equipment used in hydrographic surveys, such as multibeam echosounders, side-scan sonars, and GNSS.
- Develop participants' understanding of project planning and management principles specific to hydrographic and marine sciences projects, including risk assessment and logistics.
- Provide hands-on training in the preparation, operation, and troubleshooting of modern hydrographic equipment.
- Enable participants to conduct fieldwork simulations and actual hydrographic surveys under the guidance of experienced instructors.
- Equip participants with the necessary skills to process, analyze, and interpret hydrographic data using industry-standard software tools.
- Foster a collaborative learning environment and facilitate knowledge sharing among participants.

Target Audience

This training program is ideal for professionals and students involved in or aspiring to pursue careers in hydrography, marine sciences, oceanography, coastal management, and related fields. The target audience may include:

- Hydrographers
- Marine scientists
- Oceanographers
- Coastal engineers
- Environmental consultants
- Government agency personnel responsible for marine resource management
- Students pursuing degrees in marine-related disciplines

Training Program Outline

Day 1: Introduction to Hydrography and Marine Sciences

- Overview of hydrography and marine sciences.
- Introduction to modern equipment used in hydrographic surveys.
- Basic principles of hydrographic surveys.
- Understanding marine data collection methodologies and standards.

Day 2: Project Planning and Preparation

- Project management fundamentals.
- Risk assessment and management in hydrographic projects.
- Development of project plans for hydrographic surveys including budgeting, procurement, and logistics.

Day 3: Fieldwork Preparation and Equipment Familiarization

- Overview of fieldwork safety protocols and best practices.
- Introduction to vessel operations and navigation.
- Simulation exercises for data collection scenarios.

Day 4: Fieldwork Execution

- Fieldwork simulation aboard vessels equipped with modern hydrographic survey equipment.
- Conducting actual hydrographic surveys under the guidance of experienced instructors.
- Data acquisition, quality control, and real-time processing.

Day 5: Data Processing and Analysis

- Introduction to data processing software: Bathymetric data processing, GIS tools, and visualization techniques.
- Closing session: Review of the training program, feedback collection, and certification distribution.

Registration form on the Training Course: Mastering Hydrography: Advanced Training in Modern Marine Sciences

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