



Training Course: Geographic Information Systems (GIS)

16 - 20 February 2025 Cairo (Egypt) Holiday Inn & Suites Cairo Maadi, an IHG Hotel

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Training Course: Geographic Information Systems (GIS)

Training Course code: SC235683 From: 16 - 20 February 2025 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 3875 🛛 Euro

Introduction

Geographic Information Systems GIS are integral to modern data management, analysis, and decision-making processes across a variety of industries. This 5-day comprehensive training program is designed to equip participants with foundational and advanced GIS concepts, practical applications, and strategic insights. Attendees will gain hands-on experience with GIS software and tools, explore data collection and management techniques, and develop problem-solving skills for spatial challenges.

Target Audience

- GIS professionals seeking to enhance their skills.
- Urban planners, environmental scientists, and engineers.
- · Decision-makers in public and private sectors.
- Academic researchers and students in related fields.
- Professionals interested in spatial data analysis and visualization.

Objectives

By the end of the program, participants will be able to:

- 1. Understand the core concepts of GIS and spatial data.
- 2. Utilize GIS tools for mapping, data analysis, and visualization.
- 3. Perform geospatial analysis to support decision-making.
- 4. Integrate GIS with other data management systems.
- 5. Apply GIS techniques to real-world scenarios in various industries.

Outlines

Day 1:

Introduction to GIS

• Key Topics:



- Overview of GIS: History and Evolution.
- Components of GIS: Hardware, Software, Data, People, and Methods.
- Understanding Geospatial Data Types: Vector vs Raster.
- GIS Software Overview: ArcGIS, QGIS, and Others.
- Hands-on Session: Introduction to GIS Software Interface.
- Outcome: Participants gain familiarity with GIS basics and software interfaces.

Day 2:

Spatial Data Collection and Management

- Key Topics:
 - Data Sources: Remote Sensing, Surveys, GPS, and Open Data.
 - Data Quality, Accuracy, and Standards.
 - Managing Spatial Databases: SQL for GIS.
 - Hands-on Session: Importing and Managing Spatial Data.
- Outcome: Ability to source, validate, and manage geospatial data effectively.

Day 3:

Geospatial Analysis and Modelling

- Key Topics:
 - Techniques in Spatial Analysis: Buffering, Overlay, and Spatial Queries.
 - Modelling and Predictive Analysis.
 - Geostatistics: Interpolation and Trend Analysis.
 - Hands-on Session: Performing Basic and Advanced Spatial Analyses.
- Outcome: Mastery of geospatial analysis tools and techniques.

Day 4:

Cartography and Visualization

• Key Topics:



- Principles of Effective Cartography: Map Design and Layouts.
- Visualizing Data for Decision Support.
- 3D Mapping and Visualization.
- Hands-on Session: Creating Maps and Visual Representations.
- Outcome: Develop visually appealing and informative GIS maps.

Day 5:

Advanced Applications and Future Trends

- Key Topics:
 - Integration of GIS with AI, IoT, and Big Data.
 - Applications in Urban Planning, Environmental Management, and Logistics.
 - Trends in Web GIS and Mobile GIS.
 - Case Studies and Real-World Applications.
 - Workshop: Building a GIS Project from Start to Finish.
- Outcome: Participants apply their skills to a comprehensive GIS project.



Registration form on the Training Course: Geographic Information Systems (GIS)

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

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