Training Course:
Geographic Information Systems (GIS)

5 - 9 May 2025
Milan (Italy)

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Training Course code: SC235683 From: 5 - 9 May 2025 Venue: Milan (Italy) - Training Course Fees: 5775 ⏃ 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:
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