

€ TRAINING

Geographic Information Systems GIS



4 - 8 May 2025
Istanbul (Turkey)



Geographic Information Systems GIS

REF: H1797 DATE: 4 - 8 May 2025 Venue: Istanbul (Turkey) - Fee: 5300 Euro

Introduction:

Geographic Information Systems GIS integrate hardware, software, and data to capture, analyze, and visualize spatial information, enabling informed decision-making across fields such as urban planning, environmental management, and logistics. This training program delves into advanced strategies and contemporary approaches in Geographic Information Systems GIS, enabling professionals to stay ahead in a dynamic environment. It empowers them to implement effective GIS practices and drive organizational success.

Program Objectives:

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

- Explore the fundamentals of Geographic Information Systems.
- Apply GIS technology to real-world problems.
- Utilize GIS software for data analysis and visualization.
- Develop strategies for integrating GIS into business operations.
- Analyze spatial data to inform decision-making processes.

Targeted Audience:

- GIS Analysts.
- Urban Planners.
- Environmental Scientists.
- Data Analysts.
- Geospatial Technicians.

Program Outline:

Unit 1:

Introduction to GIS:

- Understanding the basics of Geographic Information Systems.
- History and evolution of GIS technology.

- Key components and functions of GIS.
- Applications of GIS in various industries.
- Overview of popular GIS software.

Unit 2:

GIS Data Collection and Management:

- Methods of GIS data collection.
- Data sources and types vector, raster, etc..
- Data management and storage techniques.
- Ensuring data quality and accuracy.
- Introduction to spatial databases.

Unit 3:

Spatial Analysis and Visualization:

- Principles of spatial analysis.
- Techniques for analyzing spatial data.
- Creating maps and visual representations.
- Using GIS tools for data visualization.

Unit 4:

Advanced GIS Applications:

- Integrating GIS with other technologies e.g., GPS, remote sensing.
- GIS in urban planning and infrastructure management.
- Environmental applications of GIS.
- GIS for disaster management and emergency response.
- Business applications of GIS for market analysis and logistics.

Unit 5:



Implementing GIS in Organizations:

- How to develop a GIS strategy for your organization.
- Building a GIS team and defining roles.
- Best practices for GIS project management.
- Importance of training and development for GIS staff on regular bases.
- Evaluating the impact of GIS on organizational performance.