

GEOGRAPHICAL AND MAPPING INFORMATION MANAGEMENT SYSTEM TRAINING

“Master GIS and Mapping Systems to Collect, Analyze, and Manage Geospatial Data Efficiently.”

Schedule

| Venue (InHouse) | Fees |
|-------------------------------|-----------------------|
| At Your Organization Premises | Ask For The Quotation |

► **Available delivery methods:** In-House Training

Introduction

Effective management of geographical and spatial data is crucial for planning, decision-making, and resource management in various sectors such as urban planning, infrastructure, environment, and utilities. The Geographical and Mapping Information Management System Training equips participants with the knowledge and practical skills to use Geographic Information Systems (GIS) and mapping tools to collect, manage, analyze, and visualize geospatial data efficiently.

This course covers data acquisition, spatial analysis, geodatabase management, map creation, and integration with other systems. Participants will gain hands-on experience using GIS software to make informed decisions, improve resource management, and support sustainable planning and operations.

Objectives

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

- Understand the fundamentals of GIS and geospatial data management.
- Collect, organize, and maintain spatial data effectively.
- Perform spatial analysis and data visualization for decision-making.
- Develop geodatabases and integrate GIS data with other management systems.
- Create accurate maps and reports for planning and operational purposes.
- Apply best practices for data accuracy, integrity, and security.
- Utilize GIS tools for urban planning, infrastructure management, and environmental monitoring.
- Support data-driven decision-making through advanced mapping and analysis techniques.

Why Attend

GIS and mapping systems have become essential tools for organizations involved in planning, infrastructure, and resource management. This training equips professionals with practical skills to manage and analyze geospatial data efficiently, improving operational performance, strategic planning, and decision-making processes.

Target Audience

This course is suitable for:

- GIS Analysts and Geospatial Professionals
- Urban Planners and Infrastructure Developers
- Environmental and Resource Management Professionals
- Civil and Construction Engineers
- Project Managers and Surveyors
- IT and Data Management Professionals
- Professionals involved in planning, mapping, and spatial data management

Individual Benefits

- Gain practical skills in GIS and geospatial data management.
- Learn to perform spatial analysis and produce accurate maps.
- Enhance decision-making and planning capabilities using geospatial tools.
- Improve technical expertise in GIS software and data integration.
- Increase professional value and career growth opportunities.
- Gain confidence in managing, analyzing, and presenting spatial data.

Organizational Benefits

- Improve planning, monitoring, and operational efficiency.
- Enhance data-driven decision-making and strategic management.
- Ensure accuracy and integrity of geospatial data across projects.
- Support sustainable development through better resource and infrastructure management.
- Reduce errors and costs associated with poor spatial data management.
- Build in-house expertise in GIS and geospatial technologies.

Instructional Methodology

The training employs a practical and interactive approach, including:

- Hands-on exercises in GIS software and mapping tools
- Step-by-step tutorials for data collection, geodatabase creation, and analysis
- Case studies of real-world applications in urban planning and infrastructure projects
- Group discussions and problem-solving workshops
- Assignments focused on spatial analysis, map creation, and reporting
- Continuous feedback and Q&A sessions to reinforce learning

Course Outline

- Module 1: Introduction to GIS and Geospatial Data Management
- Module 2: Data Acquisition – Satellite, GPS, and Surveying Techniques
- Module 3: Geodatabase Design and Spatial Data Organization
- Module 4: Mapping and Visualization Techniques
- Module 5: Spatial Analysis and Decision Support
- Module 6: Integration of GIS with Other Management Systems
- Module 7: Quality Assurance, Accuracy, and Data Integrity
- Module 8: GIS Applications in Urban Planning, Infrastructure, and Environment
- Module 9: Case Studies – Real-World Applications of GIS and Mapping Systems
- Module 10: Capstone Project – Developing a GIS-Based Management System

Certification

Upon successful completion, participants will receive a Certificate in Geographical and Mapping Information Management System, validating their expertise in GIS, spatial data management, and practical mapping applications for effective planning and decision-making.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training

Interested in running this course for your team?

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