

## GPS GENERAL TRAINING AND SOFTWARE APPLICATIONS TRAINING

*“Learn to Harness GPS Technology and Software for Accurate Mapping, Navigation, and Data Analysis.”*

### Schedule

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

### Introduction

Global Positioning System (GPS) technology has become essential in surveying, mapping, navigation, and various engineering applications. The GPS General Training and Software Applications Training provides participants with the theoretical knowledge and practical skills to operate GPS devices, collect geospatial data, and utilize software applications for data processing, mapping, and analysis.

This course covers GPS fundamentals, satellite positioning, data collection techniques, coordinate systems, and software tools for geospatial data management. Participants will gain hands-on experience in using GPS equipment, processing field data, and integrating GPS outputs into mapping and GIS applications for informed decision-making.

### Objectives

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

- Understand the fundamentals and working principles of GPS technology.
- Operate GPS devices for surveying, mapping, and navigation purposes.
- Collect accurate geospatial data using GPS techniques.
- Process and analyze GPS data using specialized software applications.
- Apply coordinate systems, projections, and datum transformations.
- Integrate GPS data into GIS and other mapping platforms.
- Ensure accuracy, precision, and reliability of collected data.
- Apply GPS technology effectively in engineering, planning, and resource management projects.

## Why Attend

GPS technology is widely used in civil engineering, construction, surveying, transportation, and environmental monitoring. This training equips professionals with practical skills to operate GPS devices, process spatial data, and use software applications for mapping, analysis, and project management, increasing accuracy and efficiency in their work.

## Target Audience

This course is suitable for:

- Surveyors and Geomatics Professionals
- Civil, Construction, and Infrastructure Engineers
- GIS Analysts and Mapping Specialists
- Urban and Environmental Planners
- Project Managers and Field Engineers
- IT and Data Management Professionals
- Professionals involved in navigation, mapping, and geospatial projects

## Individual Benefits

- Gain hands-on experience in GPS operation and data collection.
- Learn to process, analyze, and visualize GPS data using software applications.
- Enhance technical expertise in mapping, surveying, and geospatial analysis.
- Improve problem-solving and decision-making skills for field projects.
- Increase professional value and career growth opportunities.
- Gain confidence in applying GPS technology effectively in real-world scenarios.

## Organizational Benefits

- Ensure accurate data collection and mapping for projects.
- Improve planning, monitoring, and decision-making processes.
- Reduce errors and delays associated with manual survey methods.
- Enhance integration of GPS data into GIS and project management systems.
- Build in-house expertise in GPS technology and software applications.
- Support data-driven and efficient project execution across departments.

## Instructional Methodology

The training employs a practical and interactive approach, including:

- Hands-on exercises with GPS devices in field conditions
- Step-by-step tutorials for GPS software applications
- Data collection, processing, and visualization exercises
- Case studies of GPS applications in engineering and planning projects
- Group discussions and problem-solving workshops
- Assignments focused on practical GPS mapping and analysis scenarios
- Continuous feedback and Q&A sessions to reinforce learning

## Course Outline

- Module 1: Introduction to GPS – Principles and Satellite Systems
- Module 2: GPS Components, Devices, and Operational Techniques
- Module 3: Coordinate Systems, Datums, and Map Projections
- Module 4: GPS Data Collection – Field Techniques and Best Practices
- Module 5: GPS Data Processing and Error Correction
- Module 6: Software Applications for GPS Data Analysis and Mapping
- Module 7: Integration of GPS Data with GIS and Mapping Platforms
- Module 8: Accuracy, Precision, and Quality Control of GPS Data
- Module 9: Case Studies – Applications in Surveying, Construction, and Planning
- Module 10: Capstone Project – Collecting, Processing, and Mapping GPS Data

## Certification

Upon successful completion, participants will receive a Certificate in GPS General Training and Software Applications, validating their expertise in GPS technology, geospatial data collection, and software-based mapping and analysis for engineering and planning projects.

## Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
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- **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?

Please contact us:

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