

GEOGRAPHIC INFORMATION SOLUTIONS LTD



GPS Data Management & GIS Course

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[Geographic Information Systems](#) (GIS) grew out of an idea of taking geographic knowledge, map layers or map data and putting it in digital form and then being able to analyze it and use it for various applications. These applications are just about every kind of activity that human beings do :

- I. From government planning to
- II. Forest management
- III. Discovery of oil
- IV. Helping people in emergency situations (Coordination, Climate Change, Education)
- V. Mine Action
- VI. Agriculture
- VII. Health
- VIII. Retail Sitting
- IX. Monitoring and Evaluation
- X. Just about any field that you can think of, you can apply GIS!

By seeing the spatial and temporal connections to such things as watersheds, human settlement, natural hazards, soils, weather patterns, landforms, and land use, our students learning GIS are required to think holistically about communities, regions, and the planet. (GIS is a thinker's tool).

Professionals involved in various programs can use GIS as a tool for planning, visualizing and monitoring these programs.

This training exposes participants to the use of GIS in programs with respect to Data Sources, Mapping, Infield Practical Applications, Technology and Timeline for implementation.

REQUIREMENTS

Participants MUST carry LAPTOPS and for software installations and hands-on practicals

OBJECTIVES AND OUTPUT TO PARTICIPANTS

- Participants will be skilled in using Geographic Information Systems (GIS), GPS and Mobile phones to gather data, collaborate and share information.
- Participants will be able to communicate interventions in a geographical context using maps to facilitate project visibility, accountability and transparency.
- Exposure of participants to data capture, input, manipulation and display by QGIS
Practical skills in the use of QGIS in mapping
- To expose participants to working with tabular data.
- To explain to the participants role of GIS as a decision support system in Humanitarian Work.
- To Carry out advanced analyses of geographical data using advanced QGIS (Buffer, Clipping)
- To develop basis of Understanding through practical's and demonstrations and case studies

COURSE CONTENT

Module 1: Introduction to GPS, Mapping, QGIS and Energy Concepts

- *Fundamentals of GPS Mapping*
- *Components of GPS*
- *Equipment Setup –Handheld GPS Receivers, Mobile Phones*
- *Planning your Mapping Project*
- *GPS surveying methods and accuracy Factors*
- *Data Collection*
- *Exporting GPS data from mobile devices to GIS*
- *GPS data capture and GIS data extraction*
- *GIS features and tools*
- *Spatial Data Management*
- *GIS data sources*

- *QGIS Tools and functionalities*

Module 2: Tabular data, styling and symbolization

- Working with Tabular Data
- Data conversion to shape files
- Direct importing from GPS to GIS
- Importing Spreadsheets or CSV files to GIS
- Using Tabular Data in GIS
- Styling and Symbolization
- Styling Vector Data in GIS Using Size-Scale Field
- Styling Vector Data in GIS – Basics Module
- Module 3: Raster and Vector Data Manipulation
- Editing Vector data sets
- Heads up digitizing using satellite imagery
- Using online imagery basemaps as GIS background
- GIS Plugins and Extensions

Module 3: Map Design and Production

Module 4: Advanced Mapping (Geo-processing tools)

- *Multicriteria Spatial Analysis in Energy utilization and site selection*
- *Contour Map generations (Raster to Vector)*
- *Using Google Earth to view GIS Data*
- *Making Map for Print Using GIS*
- *Case Studies "InaSAFE Plugin" for disaster management and response (use of Advanced QGIS in humanitarian interventions)*

DELIVERY PERIOD

It will take 4 days to conduct the training once payment is sent to GEOGRAPHIC INFORMATION SOLUTIONS Bank Account, send proof of payment to (admin@geinfo-solutions.com).

METHODOLOGY

The instructor led training's are delivered using a blended learning approach and comprises of presentations, guided sessions of practical exercise, group work and infield practical visits. Our facilitators are seasoned industry experts with years of experience, working as professional and trainers in these fields.

ACCREDITATION

Upon successful completion of this training, participants will be issued with a **Geographic Information Solutions Certificate**.

Financial Breakdown and Associated Cost of Conducting the On-site training

GIS Training Solution

Below is the fee structure for our GIS training per person.

Four Days (Monday, Tuesday, Wednesday, Thursday)			
Tuition & Course Materials ONLY	Currency	Organization Sponsored	Individual Sponsored
Local (UGANDA)	UGX	1,399,000/= (Organization)	1,199,000/=
International	USD	599	599

**We provide 6months of FREE after training support to ensure fast paced organizations get the most out of the trainings.*

PAYMENTS

RTGS Transfers/ Payments (ask your bank) or Direct deposits should be sent to company account as soon as possible to avoid last minute inconveniences, all fees should be bound by the sender, and should be made in full.

Company Banking Details

USD/DOLLAR ACCOUNT

Bank: GTBANK UGANDA,

Branch: KIIRA ROAD

Account Name: GEOGRAPHIC INFO SOLUTIONS LTD

Account Number: 218/122919/2/5118/0

Swift Code: GTBIUGKA

UGX/UGANDA SHILLINGS ACCOUNT:

Bank: CENTENARY RURAL DEVELOPMENT BANK,

Branch: GULU BRANCH

Account Name: GEOGRAPHIC INFORMATION SOLUTIONS LTD,

Account Number: 7520309853

SwiftCode: CERBUGKA