South Sudan: GIS & Mobile Phone Mapping Course (Juba, South Sudan)

Registration deadline: 29 Nov 2015
Training date: 30 Nov 2015 to 05 Dec 2015
Country: South Sudan
City: Juba
Organization: Geographic Information Solutions Ltd.
Training categories: Information Technology
Theme: Water Sanitation Hygiene
Language: English
Training format: on-site
Training type: Training/Workshop

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 MODEMS for software installations and hands-on practicals, Limited slot for only 10 people available.

OBJECTIVES AND OUTPUT TO PARTICIPANTS

- Participants will be skilled in using Geographic Information Systems (GIS) and 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, Merging)
- To develop basis of Understanding through practical's and demonstrations and case studies

COURSE CONTENT

Module 1: Introduction to GPS, Mobile Phone Mapping, QGIS and WASH Concepts

- Fundamentals of Mobile Phone Mapping
- Components of GPS and Mobile phone mapping components
- 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 QGIS data extraction
- QGIS 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 QGIS
- Importing Spreadsheets or CSV files to QGIS
- Using Tabular Data in QGIS
- Styling and Symbolization
- Styling Vector Data in QGIS Using Size-Scale Field
- Styling Vector Data in QGIS – BasicsModule

Module 3: Raster and Vector Data Manipulation

- Editing Vector data sets
- Heads up digitizing using satellite imagery
- Using online imagery basemaps as QGIS background
- QGIS Plugins and Extensions

Module 4: Map Design and Production

Advanced Mapping (Geo-processing tools)

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

DELIVERY PERIOD

It will take 6 days to conduct the training once payment is sent to **GEOGRAPHIC INFORMATION SOLUTIONS**Bank Account, send proof of payment to (*info@geinfo-solutions.com*).

Register by 29th.November.2015

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.

TRAINING FEES

USD 599(Organization Sponsored**)**

SSP 13,999 (Self Sponsored)

NOTE:- *This training comes with 6 months of FREE after training on-line support from our in house GIS Experts. To allow participants and fast paced organizations get immediate impact from the training. T&C apply.*

08 Sep 2015