

**Course title:** GIS for Monitoring and Evaluation Course

**Course link:** <https://upskilldevelopment.com/gis-for-monitoring-and-evaluation-course>

## **INTRODUCTION**

GIS is a computer system capable of assembling, storing, manipulating and displaying geographically referenced information, i.e. data identified according to their locations. This training will present a practical guide for using a geographic information system (GIS) integrated with Monitoring and Evaluation.

The five days training is aimed at helping development partners to monitor and evaluate the activities of specific projects intended to support M&E systems for sustainable programs and projects. The use of GIS in monitoring and Evaluation improves the effectiveness and communications of results to management, funding partners, and beneficiaries.

The integration of GIS in monitoring and Evaluation makes it possible to link, or integrate information that is difficult to associate through any other means. With GIS M&E/Researchers are able to use combinations of mapped variables to build and analyze new variables. Presenting data in the form of a map helps to understand the significance of where, when, and by whom. By using the GIS to link data from multiple programs the training will make it possible to understand the individual programs better but also better understand the relationship between the programs. Spatial analysis techniques will also help with driving outcomes measures.

## **WHO SHOULD ATTEND?**

The course is designed for representatives from government, project teams, NGOs, multi and bilateral development organizations, consultancies, etc, that are typically employed as project managers and directors, M&E specialists, technical specialists, and researchers.

## **DURATION**

5 days

## **COURSE OBJECTIVES**

The training will enable participants to;

- Understand Monitoring and Evaluation (M&E) Systems
- Understand key concepts in M&E and GIS
- Learn how to developing an M&E-GIS System
- Learn about the working of M&E information management systems
- Learn how to collect data using mobile phones and GPS
- Learn how to integrate existing M&E data with GIS
- Learn how to analyze and visualize M&E data with the aid of GIS techniques
- Learn how to integrate GIS into M&E activities

## **TOPICS TO BE COVERED**

### **Section one: An Overview of GIS and Monitoring and Evaluation**

- Introduction to M&E
- Key components of M&E
- Basic GIS Concepts
- GIS Software; the General Overview
- Open Source GIS Software

### **Section 2: New technologies being adopted in project M&E**

- Mobile phones in M&E
- GPS devices and M&E
- Participatory videos for M&E
- Supporting bottom-up learning
- Making real-time M&E a reality through ICT
- Examples of M&E systems incorporating GIS

### **Section 3: The GIS Interface**

- The QGIS Interface
- Adding Vector Data
- Exploring the Map View
- Exploring Features
- Adding Raster Data
- Saving Your Project

## **Section 4: Geographic Analysis of M&E data**

- Creating New Project from Existing One
- Geoprocessing Shapefiles
- Joining and Mapping Attribute Data
- Plotting Coordinate Data
- Running Statistics and Querying Attributes
- Drawing Buffers and Making Selections
- Screen Captures

## **Section 5: Thematic Mapping of M&E data**

- Transforming Map Projections
- More Geoprocessing
- Creating Calculated Fields
- Classifying and Symbolizing Data
- Designing Maps
- Adding Labels

## **Training Approach**

This course will be delivered by our skilled trainers who have vast knowledge and experience as expert professionals in the fields. The course is taught in English and through a mix of theory, practical activities, group discussion and case studies. Course manuals and additional training materials will be provided to the participants upon completion of the training.

## **Tailor-Made Course**

This course can also be tailor-made to meet organization requirement. For further inquiries, please contact us on: Email: [training@upskilldevelopment.com](mailto:training@upskilldevelopment.com) Tel: +254 721 331 808

## **Training Venue**

The training will be held at our Upskill Training Centre. We also offer training for a group (**at a discount of 10% to 50%**) at requested location all over the world. The course fee covers the course tuition, training materials, two break refreshments, and buffet lunch.

Visa application, travel expenses, airport transfers, dinners, accommodation, insurance, and other personal expenses are catered by the participant

## **Certification**

Participants will be issued with Upskill certificate upon completion of this course.

### **Airport Pickup and Accommodation**

Airport pickup and accommodation is arranged upon request. For booking contact our Training Coordinator through Email: [training@upskilldevelopment.com](mailto:training@upskilldevelopment.com), +254 721 331 808

**Payment** should be done two weeks before commence of the training, to Upskill Development account, so as to enable us prepare better for you.