

OBJECTIVES

This training allows you to create, edit, view and publish geographic information under QGIS. At the end of this internship, participants will be able to:

- Understand the fundamentals of geographic information
- Administrate, represent and organize GIS datasets
- Integrate external databases by join to make graphic selections and SQL queries
- Set up thematic analysis by range of values, proportional symbols
- Work on raster-type data and digital terrain model (MNT) to extract level curves
- Create terrain profil, hillshade, slope map
- Perform geoprocessing (cutting, intersection, union)
- Advanced layers symbology and rules
- Getting started with QGIS toolbox

PUBLIC

Everyone who wants to master QGIS, handle, organize, represent and analyze cartographic datasets.

BACKGROUND

Basics in computing science and IT technologies.

ORGANISATION

Duration: 5 days

Number of trainees:

- Open course = 15 people
- On site = 10 people

Types of training:

- Open-course (Kenya)
- Individual (France)
- On site in your country

Location:

- Open course: Nairobi - Kenya
- Individual: La Rochelle - France
- On site: to be defined

Training certificate: yes

Loan of a temporary software license:
yes

TRAINING CONTENTS

Reminders on GIS and Geographical Information (GI)

- The Geographical Information
- Coordinate systems, projections, Vector, Raster data, webservice
- Data suppliers & GIS applications

Getting started with QGIS

- QGIS: general description and preference tools
- Data connection, graphic selection, attribute and statistical data, bookmarks, measure a distance or an area, save a project

Representation and publication of GIS datasets

- Graphic semiology, Labels
- Thematic analysis
- Build a map composition with Map Composer, print and export a map

Joins and data interrogation

- Database joins and SQL query
- Data export

Data creation (digitalization)

- Create a Vector layer (shapefile format)
- Draw new geometries in a layer (drawing tools, points, lines, polygons)
- Update attribute datasets

Raster and DEM data management with QGIS

- Georeference a Raster
- Create a terrain map
- Extract contour lines, hillshade and slope map
- Clip a Raster

Spatial analysis with QGIS queries and SQL selections

- Create a buffer area, intersection, clipping of layers
- Group of geometries and attributes

Advanced layers symbology with QGIS

- Symbol import
- Display layers at your scale
- Symbol levels / Labels with display conditions / rules

QGIS toolbox

- Getting started with QGIS toolbox
- Advanced spatial analysis
- Getting started with QGIS ETL (modelling) / Algorithm
- Conception of data treatment model



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