

QGIS OPEN-SOURCE DESKTOP GIS

LEVEL 1 - INITIATION

PEDAGOGICAL OBJECTIVES

Create, edit, visualize and publish geographic information in QGIS.

At the end of the course, participants will be able to:

1. Understanding the fundamentals of Geographic Information
2. Manage and represent GIS data
3. Make selections by SQL queries
4. Set up thematic analyses
5. Perform geoprocessing
6. Exploit a digital terrain model (extraction of contour lines, calculation of slopes)



TARGET AUDIENCE

All audiences



PREREQUISITES

Have a foundation in computer science



TEACHING RESOURCES

Provision of a software license: yes

Pedagogical support in digital format given to the trainee (with concrete examples and practical exercises)

Evaluation questionnaire and certificate of completion of training



DURATION > 3 days. (21 hours of training)



RATES > On quote



TERMS AND CONDITIONS

No pre-requisite selection
Dates to be agreed



REGISTRATIONS

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Tel. > +33 (0)5 46 34 07 71

For the accessibility of people with disabilities, contact us.

CONTENT

THEORETICAL REMINDER ON GIS

Geographic Information
The different types of projection
Vector and Raster data models
Gestion and acquisition, data restitution, metadata

GETTING STARTED WITH THE SOFTWARE

Description of QGIS (interface, preferences)
Consulting the data
Using bookmarks and measurement tools

GIS DATA REPRESENTATION

Graphic semiology
Symbology and labels
Thematic analyses
Map printing and export / Atlas

QUERYING GIS DATA

Select attribute by SQL query
Advanced data consultation
Joins on external file (xls, ...)
Export GIS data

DATA CREATION (DIGITIZATION)

Creating a Shapefile Vector Layer
Adding objects to a saved layer
Updating attribute data

RASTER DATA MANAGEMENT

Georeference a Raster image
Terrain analysis based on DEM/DTM
Extract contour lines
Shade Map / Slope Map
Clipping Raster

INTRODUCTION TO SPATIAL ANALYSIS

Project based exercises:
Create a buffer zone
Layer overlapping

