GeoData

**Migrating to QGIS**

*Fast-track to open source mapping*

**COURSE OUTLINE**

This practical one-day course is intended for current GIS users and provides a rapid orientation to QGIS. Whether you intend to move wholesale to QGIS, or alternatively to establish it in a support role, alongside your current GIS software, this course aims to get you mapping in QGIS with the minimum of delay.

There is an emphasis on comparisons to ArcGIS, the market leading commercial software, however the training is not exclusive to ArcGIS users. The course objective is universal—QGIS familiarisation for the GIS user.

By attending training with GeoData you can accrue CPD points towards the Chartered Geographer accreditation. All of our courses are validated under the Association for Geographic Information CPD scheme and the GIS Certification Institute GIS Professional (GISP) Award.

**ANTICIPATED COURSE OUTCOMES / ACHIEVEMENTS**

**Aims and objectives**

- QGIS Familiarisation for the current GIS user
- Informing decisions of whether or not to adopt QGIS; fostering comparisons with other GIS software
- Signposting the key areas of the programme, allowing the GIS users to focus on areas of interest
- Illustrate the scope and potential of open source software

**Learning outcomes - by the end of the course, delegates will understand how to:**

- Replicate the GIS functions they currently employ using other software platforms
- Determine the pros and cons of adopting QGIS either alongside or in place of current GIS software
- View, manipulate, edit, create, analyse and manage spatial data in order to investigate topics in the delegate’s area of interest

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For further information please contact:
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1-day course outline

Section presentations:

1 - Migrating to QGIS
Discussion and product comparison
  o Pros/Cons against QGIS rivals
QGIS – Innovations
QGIS – Areas for improvement

Section exercises:

2 – Get going with QGIS!
Download & Install
Interface and Orientation
Key components and where to find them:
  o QGIS Map window
  o Navigation and primary toolbars
  o Layers & layer properties
  o Working with Tables
  o Querying and Selections
  o Print Composer
  o QGIS Browser
  o Analysis & Geoprocessing Tools

Exercise 2a: QGIS fundamentals
Exercise 2b: Organising & styling data
Exercise 2c: Working with tables
Exercise 2d: Selections & queries
Exercise 2e: Creating a map with Print Composer

3 – Data in QGIS: viewing, editing, creating
Data formats in QGIS
  o Shapefiles
  o SpatiaLite Databases
  o ESRI Geodatabases
  o PostGIS Databases
Cross-compatibility between GIS platforms
Basemapping
Creating and Editing spatial data

Exercise 3a: Creating & editing GIS data
Exercise 3b: creating a SpatiaLite database
Exercise 3c: Accessing basemap data

4 – Analysis & Geoprocessing in QGIS
Where are the tools?
QGIS Geoprocessing Framework
Vector processing tools
Raster processing tools
Automating geoprocessing steps

Exercise 4a: Analysis & Geoprocessing
Exercise 4b: Automate data processing using QGIS Graphical Modeler