

Introduction to Quantum GIS (2-day course)

Improve your environmental mapping and employability with this 2 day course on Open Source GIS Software

Organisation: GeoData Institute, University of Southampton
Location: Southampton
Course Type: Continuing Professional Development
Date: 11th-12th February 2014 (Courses run every two month; refer to website)
Duration: 2 days
Cost: £350
Contact name: Teresa Agustina
Contact tel: 023 8059 9036
Contact email: training@geodata.soton.ac.uk

This course outlines the principles and methods of Geographical Information Systems (GIS) using a leading Open Source GIS software package, Quantum GIS. You will learn valuable GIS professional skills through hands-on computer exercises and how to apply these techniques to your environmental data. It also introduces a range of useful and accessible data sources across these fields. In addition, you will gain experience of data capture, data handling, environmental and social data analysis and mapping techniques that can be applied across the multi-disciplinary environmental sector – from habitat, species, landscape, social environment analysis and mapping.

Course Structure:

The course comprises a series of presentations and computer-based practical exercise sessions using Quantum GIS software with example data sets taken from a variety of disciplines. The course will cover:

- Introduction to GIS and Open Source Quantum GIS – some important principles
- Quantum User Interface: finding your way round Quantum, formatting data, symbology and labelling and scales.
- Data Management: data and metadata for GIS, vector and raster data
- Using Tables: fields and attributes, joining and relating tables
- Selections and Queries: interactive selections, using Query Builder, location-based and attribute based selections
- Georeferencing: data and georeferencing data
- Creating and Editing Layers : creating new layers, editing point, line and polygon data and attributes
- Producing Maps and digital outputs: map elements, templates and printing
- Geoprocessing & Other Tools / Extensions: introduction to more advanced functions.

Who should attend?

This introductory course is intended for those who have little or no GIS knowledge. Accredited by the AGI for continuing professional development, this GIS course can improve your employability by adding what is becoming an increasingly demanded skill by employers in the environmental, social and conservation fields. The course is intended for individuals and organisations wishing to take advantage of FREE software developed by the Open Source community. Open-source software has recently been acknowledged by a UK government mandate, recommending its preferential use over proprietary or closed source alternatives.

Location: Courses are held in the GeoData Institute, University of Southampton, but can be run remotely if needed.

To book this course or for further information about this and our other courses, please email: training@geodata.soton.ac.uk or visit our website: <http://www.geodata.soton.ac.uk/geodata/training/ScheduledCourses>

The GeoData Institute @ Southampton University: *is a leading University-based independent geospatial research group with 30 years of experience in social and environmental data management. GeoData supports courses in other mainstream GIS (**ArcGIS, MapInfo Professional**) at beginner, intermediate and advanced levels. If you cannot find what you want GeoData offer thematic courses in **Projections in GIS** and in **Coastal and Marine GIS** as well as **bespoke courses** that can be run at your offices. Our focus and experience across applied research and consultancy provides insight into the whole project lifecycle of using GIS and geospatial processing, from data audit, capture and management, analysis and output through to customisations and GIS tool development. GeoData also offer on-going support packages for GIS trainees.*