GeoData

Advanced MapInfo Professional

COURSE OUTLINE

This course builds on the delegate's existing knowledge of the underlying principles and methods of Geographical Information
Systems (GIS). It comprises a series of presentations and computer-based practical sessions using MapInfo Professional software with example date sets taken from a variety of fields. The basic functionality of MapInfo Professional is expanded upon.
Topics covered include: introduction to GIS customization with MapBasic; expressions

and functions; advanced queries; data capture and QA; spatial analysis; advanced use of workspaces; using remote data; advanced data display and output; and resources and utilities.

This course is intended for those who have completed our Introduction to MapInfo Professional course or have equivalent knowledge and experience.

By attending training with GeoData you can accrue CPD points towards the Chartered Geographer accreditation.

This course has been validated under the Association for Geographic Information CPD Scheme and it has been assessed for Royal Geography Society with IBG (RGS-IBG) Chartered Geographer (CGeog) accreditation (10 hours of CPD points).





ANTICIPATED COURSE OUTCOMES / ACHIEVEMENTS

Aims and objectives

- To develop delegates' understanding of the fundamental concepts of GIS including its strengths and limitations.
- To widen delegate's experience beyond the core functionality of the MapInfo Professional software package.
- To expand on the skills needed to obtain, import, manipulate, analyse, interpret, manage and output spatial data in order to investigate topics in the delegate's area of interest.
- To demonstrate more advanced real-world uses of GIS.

Learning outcomes - by the end of the course, delegates will have a knowledge and understanding of:

- MapBasic syntax
- Expression building and use
- Basic MapInfo automation using MapBasic window and workspace
- Using remote spatial data sources (spatial databases & internet data sources)
- Bundled and third party tools
- · Advanced geoprocessing
- Advanced SQL
- Advanced data display and output





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Day 1

1 - Introduction to MapBasic

MapBasic window Documentation

Day 2

6 - Using Remote Data

ODBC Sources Spatial databases Internet data sources

Exercise 6: Using Databases

2 - Expressions & functions

String expressions Numeric expressions Spatial expressions Functions Applications of expressions

Exercise 2: Using expressions

7 - Advanced Data Display & Output

Advanced thematic mapping Hotlinking HTML Image maps Layered PDF export

Exercise 7: Display techniques

3 - Advanced Queries

Textual joins
Spatial joins
Sub selects
Optimising queries

Exercise 3: Advanced Queries

8 - Coordinate Systems

Implementation in MapInfo Bounds clauses Custom coordinate systems Converting Reprojecting rasters

Exercise 8: Working with coordinate systems

4 - Spatial Analysis

Overlay Reclassification Spatial Statistics Redistricting

Exercise 4: Spatial Analysis

9 - Resources and Utilities

Configuring Mapinfo

5 - Workspaces

Editing Workspaces Using workspaces as scripts

Exercise 5: Batch Processing

10 - Group Exercice

Exercice 10: Mini GIS project



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