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 data 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.

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

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.
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Day 1

1 - Introduction to MapBasic
MapBasic window
Documentation

2 - Expressions & functions
String expressions
Numeric expressions
Spatial expressions
Functions
Applications of expressions
Exercise 2: Using expressions

3 - Advanced Queries
Textual joins
Spatial joins
Sub selects
Optimising queries
Exercise 3: Advanced Queries

4 - Spatial Analysis
Overlay
Reclassification
Spatial Statistics
Redistricting
Exercise 4: Spatial Analysis

5 - Workspaces
Editing Workspaces
Using workspaces as scripts
Exercise 5: Batch Processing

Day 2

6 – Using Remote Data
ODBC Sources
Spatial databases
Internet data sources
Exercise 6: Using Databases

7 – Advanced Data Display & Output
Advanced thematic mapping
Hotlinking
HTML Image maps
Layered PDF export
Exercise 7: Display techniques

8 – Coordinate Systems
Implementation in MapInfo
Bounds clauses
Custom coordinate systems
Converting
Reprojecting rasters
Exercise 8: Working with coordinate systems

9 – Resources and Utilities
Configuring MapInfo

10 – Group Exercise
Exercise 10: Mini GIS project

For further information please contact:
GeoData, University of Southampton, Southampton
S017 1B1. Tel. +44 (0)23 8059 2719
gis-train@geodata.soton.ac.uk
www.gis-train.com