

ADVANCED MAPINFO PROFESSIONAL FOR CHURCH OF ENGLAND

DURATION: 1 DAY

PREREQUISITES: INTRODUCTION TO MAPINFO PROFESSIONAL

Course Overview

MapInfo Professional is a powerful Microsoft Windows based mapping application that enables business analysts and GIS professionals to visualise the relationships between data and geography. The industry's leading business mapping solution, this software lets you perform sophisticated and detailed data analysis to facilitate informed decision making. With Advanced training you can harness the full power of MapInfo Professional! This course builds on the foundations of the 'Introduction to MapInfo Professional for Church of England' training by exploring some of the more sophisticated capabilities of the software.

The course is aimed at existing MapInfo Professional users who wish to extend their spatial analysis capabilities with MapInfo Professional. Delegates who attend this course must have previous experience of MapInfo Professional to a standard equivalent to that outlined in our Introductory course.

Through Dotted Eyes involvement with the Church of England Dioceses and the Church Commissioners, our GIS Consultants have an in depth understanding of both the datasets used by staff working within the Dioceses and the types of analysis that they wish to undertake. As a result the course data and examples have been specifically tailored to demonstrate how MapInfo Professional can be used by Diocesan staff. [The modules highlighted in blue within the course outline are just some of the many Church of England examples included within the advanced training course.](#)

Visit www.dottedeyes.com/training for more information. Visit www.dottedeyes.com/buytraining to book this course.

Course Content by Session (09:15 – 17:00):

Welcome to Dotted Eyes

A brief introductory session:

- Course Overview
- Course Resources & Amenities
- About Dotted Eyes

Foundation Knowledge (Trainer briefly recaps on MapInfo Professional basics)

Your trainer will use this brief session to remind you of some of the basic MapInfo Professional functionality and settings:

- MapInfo Tables & Files
- OS MasterMap Layers
- Defaults & Settings
- Creating Tables
- Finding & Selecting Records

Digitising

By the end of this session you will:

- Be able to make a layer editable
- Be familiar with the MapInfo drawing tools
- Be able to draw lines and regions that snap exactly to existing features

Advanced Digitising & Object Processing

This session is designed to enhance your object editing and processing skills:

- Tools to Aid Digitising - Using Snap (S), Trace (T), Autonode (N), using a ruler with Autonode – [to draw property asset boundaries](#)
- Advanced Object Editing – [reshaping, combining and splitting areas of land e.g. glebe land, parish and diocese boundaries](#)

Table Structure & Creating Tables

By the end of this session you will be able to:

- Add, remove, index and re-name table fields
- Create a new table by saving a copy of an existing table
- Create a new table by defining the table structure first
- Create a new table from objects in the cosmetic layer – [creating a new parsonage table within the map window](#)

Modify Table Structure & Update Columns

This session aims to give you an understanding of how to alter the structure of tables in MapInfo Professional, how to update tables and how to append them:

- Update Columns with Values From Other Tables – [updating Output Area boundaries with “Child Well Being” indices](#)
- Save Or Revert a Column Update
- Using Expressions to Update Columns – [updating boundaries to calculate the ratio of ‘average giving’ against the underlying population](#)
- Updating Selections Only
- Update Column with An ID / Specific Value – [create a glebe land Id field](#)
- Using Temporary Columns
- Using Functions to Update Columns
- Append Tables – [appending monthly point datasets, including ‘wedding’ queries and ‘school admission’ requests](#)
- Pack and Rename Tables

Tools In MapInfo Professional

MapInfo Professional includes a number of tools to enhance interoperability as well as tools to assist your spatial analysis. This session covers the use of some of these tools as well as those from other sources:

- Analysis & Buffering – identifying and counting the underlying population set distances from church locations
- Spider Graph – calculating distances between parishioner’s and church locations
- Buffering, Concentric Ring Buffer – identifying children falling within Church of England school catchment areas
- Window & Workspace Management
- Window Manager, Named Views, Workspace Packager
- Data Management
- Disperse Points – dispersing co-incident parishioner point locations
- Search & Replace
- Custom Tools & Development - .mbx (tools) can be created with MapBasic resources such as directionsmag.com for free tools

Querying with SQL Select

This session aims to give you an overview of MapInfo’s SQL Select function. SQL Select can be a very powerful tool within MapInfo not only to identify records of certain criteria but to calculate new values as well! It is recommended that you have prior experience of using the ‘Query > Select’ command in MapInfo Professional:

- Introducing SQL Select
- Ordering Records
- Querying Multiple Tables
- Grouping & Aggregating Data – grouping and counting parishioner records by gender
- Using Functions in SQL Select – calculating the population density of Output Areas
- Joining data using SQL – appending deprivation, neighbourhood and giving statistics to boundary data
- Saving Queries
- Data Validation

Advanced Thematic Mapping

This session is designed to deepen your knowledge of the flexibility thematic maps offer you in analysing your data. As a result of completing this session, you will have discovered how to create:

- Range thematics – showing ‘age’ and ‘Child Well Being’ values by area
- Bi-Variate thematics – showing parishioners by type and number of visits to church
- Expressions – creating population density maps

Linking to External Files

By the end of this session you will be able to:

- Set up links to external files e.g. *.jpg, *.pdf, *.mp3, etc
- Launch the hotlinks through a mapper and browser window

To view course dates, or to book this course, visit www.dottedeyes.com/buytraining. To request more details about this course please call our Training Co-ordinator on 01527 556920 or email training@dottedeyes.com

Training Facilities

Our custom built training suite at Hanbury Court in North Worcestershire provides purpose built facilities for up to 10 delegates. Each delegate has the use of an up to date individual computer with TFT screen and the latest edition of the relevant software.

Disabled access - There is full disabled access to the building with dropped kerbs offering easy access. All training is conducted on the ground floor where a dedicated disabled washroom is also situated for your convenience. We are especially keen to welcome disabled guests and make their visit as comfortable as possible.

Car parking - There is free car parking on site.

Dietary requirements - All courses include lunch as well as mid morning and afternoon refreshments. We are happy to cater for vegetarians and those with other dietary requirements, providing we have advance notification.

Opening hours - Access to the building is available from 8:15am to 5:45pm on training days.

Internet access - Delegates can use the internet or check webmail on their training machine during breaks.

Taxis - Dotted Eyes staff are happy to help arrange a taxi for your return journey to your hotel or the train station if required.

Accommodation – The training section of the website carries information about local hotels and B&Bs.

About Dotted Eyes

Dotted Eyes provides a range of products and services to its wide customer base including web mapping, spatial data loading, consultancy, training, data and software. The company is now producing a range of solutions which will revolutionise the way in which GIS departments deliver their services, removing the repetitive low value items from a GIS Manager's task list so they can focus instead on real, high value GIS services and analysis.

The organisation is one of Ordnance Survey's Premier Partners, and a trusted partner of NAVTEQ, Pitney Bowes Business Insight (MapInfo) and Safe Software. The organisation is accredited by Buying Solutions, and has recently won three major public sector procurements, including the contract to supply digital maps to the NHS in England.