



# MapInfo Professional Level 2: Geographical Analysis & Presentation

## Course Overview

This course builds on the 'Introduction to MapInfo Professional' training course and has been designed to focus on analysis of data, both table and spatial data, followed by the visualisation of the results.

Our **instructors** are both product experts and qualified in teaching adult learners. We pride ourselves on the fact that our training standards are high and we have consistently achieved the Gold Standard Award from the Learning & Performance Institute who have monitored and assessed our training materials, course delivery and methodologies over many years.

## Course Prerequisites

The prerequisite for this Level 2 Training Course is to have attended the 'Introduction to MapInfo Professional' training course or to have attained a good level of experience working with the basics of the product.

The course is taught using the version of MapInfo Professional currently being shipped.

## Course Details – Cost, Duration and Location

Scheduled classroom course cost is £750 per person. This course is 2 days in duration and lunch is provided.

Our scheduled classroom training courses are located at our Watford Office:

Address: Pitney Bowes Software, 6 Hercules Way, Leavesden Park, Watford, WD25 7GS

## To Book a Course

To book a place on a scheduled course, please contact us via email: [UKtraining@pb.com](mailto:UKtraining@pb.com)

Or via telephone: 0800 840 0001

If you require a private course either run at your company site or using our training facilities please contact us. We will be happy to discuss your training requirements.

# Course Content

## Advanced Layering & Labels

This module explains how to use the Table List to speed up your work flows in MapInfo Professional. Learn to use Label and Display overrides to show different object styles and label text at different zoom levels. Create multi line labels and your own styles using stacked styles. Use hotlinks to connect documents, pictures or web addresses to map objects.

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## Advanced Thematic Mapping

The emphasis of this module is on exploring different methods of representing multiple data variables on a map. This includes bivariate symbol thematic maps, shading layers based on expressions, shading regions on more than one variable by using 'see-through' patterns, creating 'True/False' maps and using pie chart maps and creating grid thematics.

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## SQL Select Part I: Essentials of Data Querying

This course includes extensive coverage of MapInfo Professional's SQL capabilities. Part 1 covers some of the essentials to using the SQL Select command to derive new columns of data from existing data, summarise and aggregate data (calculating totals and averages) and sort your data. Learn to working with data from two different tables at once using both relational and geographic joins.

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## SQL Select Part II: Using Geographic Operators & Functions

In this second module on the SQL Select capabilities you will use a number of geographic operators and functions. You will calculate the length of line objects and calculate distances between points. This will include both calculating the distance between points from different tables (e.g. stores and customers) and calculating the distance of points from a fixed location. You will use the CreateCircle() function to select point objects within a circle. You will also use the Distance Calculator & Spider Graph tools to calculate distances between points on a map.

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## SQL Select Part III: Advanced Querying

This module builds on the SQL Select Part 2 module. It explores advanced querying concepts using sub-selects. You will write queries that pass the result of one selection into another selection. For example, it is possible in a single step, to select all of the records where a value is greater than the average value in a column. A number of methods to use sub-selecting will be explored including using circles to select objects near a specified location.

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## Redistricting

Use the Redistricting Window to build a custom set of districts or territories. As you build your own territories, you will use the Districts browser to monitor and adjust the size of each territory according to a data value. For example, territories can be built that have roughly the same population, sales or workloads. This module covers building districts from scratch as well as adding, removing and changing districts. The Combine Objects Using Column command will be used to combine the resulting districts and build a separate table of territory boundaries.



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## Region Analysis

This module will explore various techniques for creating regions to help aggregate data. You will learn advanced buffering techniques including buffering lines and regions, creating concentric ring buffers, convex hull regions and using Voronoi polygons to create catchments.

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## Update Column

In this module you will use the Update Column command to clean data columns in a table and to input new information. This includes using string functions to extract specific characters from a column, such as separating a first and last name. You will also update one table with information from another (Join tables). Finally, you will add coordinates to a table.

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## MapBasic for MapInfo Professional Users

This module will cover using the MapBasic window to save and reuse a series of commands. You will also learn how to edit workspaces to correct problems, add new commands or send messages to the user. Learn how to execute a query based on another query. No programming experience required!

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## Geocode a Site

Learn how to add a point to a table at a specific location. Search for a location using the 'Move Map To' premium feature and draw the point at the exact searched location.

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## Creative Map Annotation, Presentation and Output

Add scale bars, north arrows, grids and other annotations to your map and layout designer windows. You will also create and use custom legends. Other features to enhance your output are also covered, such as using clip regions, rotating map windows, creating over-views/insets and more. Some creative layout window templates are also provided.

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## After completing the course, you will be able to:

- Create multi line labels & apply different object & label styles at different zoom levels
- Connect documents, pictures or websites to map objects
- Write SQL queries to calculate distances, select data within a certain distance of other locations, create aggregate data (sums and averages) and join data tables together.
- Clean data & add information from one table into another
- Present your maps with a scale bar, north arrow and legend
- Clip the map to single or multiple regions & rotate the map
- Use MapBasic to save queries on a query in a workspace
- Show locations that meet a certain criteria in a 'true/false' map
- Present thematic maps using more than one data column
- Create territories based on a browser data values
- Divide a region into catchments using voronoi and create a outer region using convex hull analysis

Every connection is a new opportunity®