

Updated on 25/07/2025

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# MapInfo GIS Basics training

2 days (14 hours)

## Presentation

This two-day training course will enable you to master the essential functions of MapInfo Professional: data import, layer management, thematic mapping, spatial analysis, basic scripting and exporting your work.

Our training program will help you understand the basics of geographic information systems (GIS) and harness the power of MapInfo Professional to visualize, analyze and present geospatial data? This training course guides you step by step, from the fundamentals through analysis and thematic mapping, to the first automations.

Through practical case studies, you'll learn how to manipulate your data, create powerful maps, perform spatial analysis and automate common tasks.

## Objectives

- Understand the fundamentals of GIS and the role of MapInfo.
- Import, manage and visualize geospatial data
- Apply simple spatial analyses (buffering, queries, overlay)
- Create precise, customized thematic maps
- Automate repetitive tasks with minimal scripting
- Export and share your maps via MapInfo Viewer or image/PDF formats

## Target audience

- Data analysts, research managers, geomaticians new to MapInfo
- Professionals who need to quickly integrate or visualize geographic data

## Prerequisites

- Basic knowledge of data manipulation (spreadsheets, basic SQL)
- Introduction to GIS recommended (basic vector/raster concepts, projections)

## MapInfo GIS Basics training program

### Introduction to GIS and MapInfo concepts

- Presentation of key concepts: GIS, vector vs. raster spatial data, projections
- MapInfo's place in the GIS desktop ecosystem
- Interface overview: windows, toolbars, workspaces, layers
- Notions of tables, workspaces and file management
- Access to help and community resources

### Importing and managing data

- Opening and importing files: CSV, Excel, shapefiles, raster images
- Geospatial data integration: geocoding, various formats
- Table management: navigation, filters, sorts, simple joins
- Layer control: visibility, order, properties
- Import multiple sources (spreadsheet + shapefile), workspace configuration, data exploration

### Mapping and symbolization

- Creating thematic maps: classes, colors, symbols
- Labeling geographic elements
- Legends and advanced options (transparency, styles)
- Layout configuration: title, scale, export (PDF/image)
- Introduction to graphic visualization (graphics & color attribution)

### Spatial analysis and queries

- Spatial and attribute selections: buffer, catchments, classic selects
- Selections by intersection, proximity, simple SQL queries
- Mapping analysis results: draped themes
- Introduction to raster and surface analysis (MVR/MRR)

### Automation and scripting

- Introduction to MapBasic and basic scripting
- Creating simple scripts for recurring automation
- Using macros for repetitive tasks

### Publication of results and best practices

- Exporting maps for sharing (images, PDF)
- MapInfo Pro Viewer for internal distribution
- Backups, workspace organization, version management
- Complete analysis (buffer+ selections+ thematic map), prepare layout and export final output

## Companies concerned

This training course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

## Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the forthcoming course, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

## Teaching methods

Practical training: 60% hands-on, 40% theory. Training material distributed in digital format to all participants.

## Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

## Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

## Certification

A certificate will be awarded to each trainee who has completed the entire course.