
Learning AutoCAD Map 3D

Duration:**3 Days**

In this courseware, students learn about the features and functions of AutoCAD® Map 3D, including how to create, manage, and analyse mapping data. The courseware guides students through the fundamental and advanced features of AutoCAD Map 3D.

Course Objectives:

The primary objective of the course is to teach students the fundamentals of AutoCAD Map 3D as well as, through hands-on exercises, how to create, edit, manage, and analyze mapping data.

After completing this course, students will be able to:

- Create coordinate geometry and clean up drawings.
- Link and manage attribute data.
- Import mapping data from other applications.
- Set up and manage feature classification.
- Work with raster images.
- Attach and manage source drawings.
- Query objects from source drawings.
- Manage the display of map objects with the Display Manager.
- Create and analyse topologies.
- Plot map books.
- Combine mapping features into a solution-based workflow.

Prerequisites & Who Should Attend:

This courseware is designed for new users of AutoCAD Map 3D.

Before using this courseware, students should have completed the Learning *AutoCAD* course or equivalent and have working knowledge of the following:

- A recent version of AutoCAD.
- Microsoft® Windows® XP or Microsoft® Windows® 2000.

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Day 1

Getting Started

- The AutoCAD Map 3D Interface

Creating and Editing Geometry

- Using Coordinate Geometry
- Performing Drawing Cleanup

Linking and Managing Drawing-Based Attribute Data

- Creating and Attaching Object Data
- Editing and Managing Object Data
- Connecting to a Database
- Defining a Link Template and Linking Records to Objects
- Using Database Information in a Drawing

Using Object Classification

- Setting Up Object Classification
- Classifying, Selecting, and Creating Classified Objects

Importing and Exporting Drawing-Based Data

- Importing and Exporting Data

Day 2

Working with Raster Images

- Inserting Raster Images
- Modifying Raster Image Properties and Behavior

Working with Source Drawings

- Attaching Source Drawings
- Working with Coordinate Systems

Using Source Drawing Queries

- Defining Property and Location Queries
- Defining Data Queries
- Compound Queries
- Altering Properties During Queries
- Using the Query Library
- Save Back to Queried Objects

Stylizing Drawings

- About the Display Manager
- Creating Display Maps
- Creating Thematic Maps
- Creating Display Map Scales
- Using the Display Library

Day 3

Using Topology and Spatial Analysis

- Creating Network Topologies
- Creating Polygon Topologies
- Editing and Managing Topologies
- Network Topology Analysis
- Polygon Topology Analysis

Plotting Maps

- Map Books

Workflows

- Creating Hydrant Maintenance Reports
- Adding Hyperlinks Automatically to Objects
- Migrating Drawings to Geospatial Data