



This course is designed to enable new users to learn most features and functions of AutoCAD® Map 3D software to create, manage, and analyze mapping data. Topics considered fundamental to using AutoCAD Map 3D software are covered in depth. Intermediate features are covered, and depending on the need of each user, can be approached as an introduction or can be followed for a more comprehensive understanding.

Prerequisites: Completion of AutoCAD Fundamentals or proficiency of AutoCAD® to create basic geometry, manage layers, enter commands and manage files is recommended along with working knowledge of Microsoft® Windows® XP or Microsoft® Windows® Vista.

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Course Objectives

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

Upon completion of the course, the student will:

- Create coordinate geometry and clean up drawings.
- Link and manage drawing-based attribute data.
- Use object classification
- Import and export drawing-based data.
- Work with raster images.
- Attach and manage source drawings.
- Use source drawing queries.
- Stylize drawings.
- Use topology and spatial analysis.
- Plot map books.
- Import and work with survey data

Who Should Attend

New users of AutoCAD Map 3D.

Course Outline

Day 1

Getting Started

- The AutoCAD Map 3D User 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
- Creating Dynamic Annotation
- 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
- Classify, Select and Create 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

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

Day 3

Stylizing Drawings

- About the Display Manager
- Creating Display Maps
- Creating Thematic Maps

Using Topology and Spatial Analysis

- Creating Network Topologies
- Network Topology Analysis
- Creating Polygon Topologies
- Polygon Topology Analysis

Plotting Maps

- Map Books

Job Processes

- Creating Hydrant Maintenance Reports
- Adding Hyperlinks Automatically to Objects
- Transitioning From Drawings to Feature Sources

Survey Data

- Creating Survey Data Stores
- Working with Survey Data Stores