

AutoCAD® Map 3D Complete Guide

AutoCAD® Map 3D software provides access to GIS and mapping data to support planning, design, and data management. Intelligent models and CAD tools help you to apply regional and discipline-specific standards. Integration of GIS data with your organization helps to improve quality, productivity, and asset management.

AutoCAD® Map 3D Complete Guide is specifically aimed at experienced software users looking for advanced skills instruction and introductions to more specialized software. Our on-screen instructors walk you through the processes step by step, allowing you to follow along hands-on if you wish; quickly and easily picking up the new skills you need.

User's prerequisites

You don't need any previous experience with AutoCAD® Map 3D to take this course.

Course Outline

Introduction to AutoCAD Map 3D

- Introduction to AutoCAD Map 3D
- AutoCAD Map 3D Workspaces
- AutoCAD Map 3D Interface

Getting Started with AutoCAD Map 3D

- Data Output Using the Save As Option
- Loading Data Using the Map Explorer Tab
- Loading Data Using the Connect Tool
- Importing an External File Format Data Using the Map Import Tool
- Importing GCP Data Using the Survey Tab
- Data Output Using the Export Option
- Data Output Using the DWG Convert Option
- Sending Files as Packages with eTransmit
- Data Output Using the Publishing Option

Working with Basic Tools and Coordinate Systems

- Using the Basic Navigation Tools
- Creating a Coordinate Reference System
- Assigning a Coordinate Reference System to Data
- Using the Connect Tool to Assign a Coordinate System to a Dataset
- Using a Named UCS for Drawings

Working with Feature Data

- Inserting a Raster Image Using the Image Tool
- Creating Feature Data Store
- Creating the Point and Multipoint Feature Data
- Creating the Line and MultiLine Feature Data
- Creating the Polygon and MultiPolygon Feature Data
- Editing Feature Attributes
- Editing the Feature Data Geometry
- Using the Angle/Distance Routine
- Using the Bearing/Distance Routine
- Review of Data Thus Far
- Expression Builder

- Styling and Querying Feature Data
- Scale Ranges for Layer Default Area
- Symbolization Style for Selected Scale Range Area
- Using Filters to Query the Feature Data
- Searching Data in connected Features

Creating Object Data, and Attaching External Database and Drawings

- Defining Object Data Table
- Attaching Object Data to Existing Drawing Object
- Attaching Object Data While Digitizing a Drawing Object
- Editing the Object Data
- Editing the Object Data Table
- Connecting to a Database
- Defining Link Templates
- Linking Data from the Data Table to the Drawing Objects
- Attaching a Drawing File
- Location Query Type
- Property Query Type
- Data Query Type
- Defining a Complex Query for Checking Multiple Conditions
- Specifying the Query Mode
- Setting the Options for Query Output Data
- Alter Properties for incoming Objects
- Creating and Managing the Query Library
- Editing an Object in an Attached Drawing
- Save Back Process
- Setting User Rights for Drawing

Classifying Objects and Working with Classified Objects

- Login as Map 3D User with Appropriate User Privileges
- Specifying a Definition File
- Defining an Object Class
- Selecting Drawing Objects for Classification
- Classifying Drawing Objects
- Unclassifying Drawing Objects
- Verifying the Details of the Classified Data

- Creating Objects by Using Object Classes
- Editing an Existing Object Class
- Displaying the Metadata Information
- Including and Sharing the Metadata File

Performing Drawing Cleanup and Working with Topologies

- Select Objects Page
- Select Actions Page
- Cleanup Methods Page
- Error Markers Page
- Performing Drawing Cleanup
- Creating a Topology
- Working with Topology
- Topology Data Structure
- Defining a Topology Query
- Object Thematic Query
- Topology Thematic Query

Data Analysis

- Line & Arc Information Tool
- Angle Information Tool
- Geodetic Distance Tool
- Coordinate Track Tool
- Continuous Distance Tool
- Add Distances Tool
- Measure Tool
- List Slope Tool
- Feature Buffer Tool
- Feature Overlay Tool
- Show Topology Tool
- Object Buffer Tool
- Dissolve Tool
- Object Overlay Tool
- Network Analysis Tool
- Create Closed Polylines Tool

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AutoCAD® Map 3D Complete Guide (cont'd)

Course Outline (cont'd)

Working with Different Types of Data

- Point Cloud Manager
- Creating a 3D Surface from the Point Cloud Data
- Creating a 3D Surface from the Field Survey Data
- Styling a Raster Layer
- Performing Height, Slope, and Aspect Analysis
- Creating a Contour Layer
- Setting the Hillshade Parameters
- Creating a Bulk Copy
- Creating a Shape file from Civil 3D Objects
- Managing the Attributes in a Vector Layer

Editing a Map and Creating a Map Book

- Rubber Sheet Tool
- Boundary Break Tool
- Boundary Trim Tool
- Preparing a Map Layout Sheet
- Publishing to Infrastructure Map Server
- Creating a Map Book Using the Plot Settings

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