

Autodesk AutoCAD Map 3D Training Course

Course Overview

Course Length: 16-Hours

- 16-Hours – 8 x 2-hour training sessions
- Remote training over MS Teams
- Sessions are recorded and download links for each session are provide for future use
- Training for up to 1-3 People
- Sessions can start within 7 days upon ordering
- Flexible sessions (i.e. consecutive or Monday, Wednesday, Friday, etc.)
- Courses are private and topics can be customised to suit
- Includes Certificate of Completion

This Autodesk AutoCAD Map 3D training course provides an introduction to the AutoCAD Map 3D user interface, creating and mapping geometry, connecting to and editing geospatial features, working with raster images and source drawings, and using survey data and industry models. The course is designed to build practical GIS and mapping skills for users working with spatial data in an AutoCAD environment.

Topics Covered

- AutoCAD Map 3D user interface and core mapping workflow
- Creating and editing geometry using coordinate-based tools and cleanup utilities
- Object data, dynamic annotation, and database linking
- Object classification, importing and exporting data, and establishing coordinate systems
- Feature source connections, feature editing, raster images, and DEM files
- Source drawings, drawing queries, styling FDO features, and plotting maps
- Survey data stores, industry models, and point cloud workflows

Prerequisites

Experience with AutoCAD and knowledge of mapping and GIS are recommended for this course.

Training Guide Contents

Chapter 1: Getting Started

- AutoCAD Map 3D User Interface

Chapter 2: Creating and Editing Geometry

- Using Coordinate Geometry
- Performing Drawing Cleanup

Chapter 3: 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

Chapter 4: Object Classification

- Setting Up Object Classifications
- Classify, Select, and Create Classified Objects

Chapter 5: Importing and Exporting Data

- Importing and Exporting Data

Chapter 6: Establishing a Geospatial Environment

- Connecting to a Feature Source
- Using Coordinate Systems
- Working with Point Data
- Query Features on Connect

Chapter 7: Editing Features

- Editing Feature Attributes and Geometry
- Moving Data Between DWG Objects and FDO Features
- Merging and Splitting Features
- Enhanced Data Exchange

Chapter 8: Raster Images

- Inserting Raster Images
- Modifying Inserted Raster Image Properties and Behavior
- Connecting to Raster Images
- Working with DEM Files

Chapter 9: Source Drawings

- Attaching Source Drawings
- Working with Coordinate Systems

Chapter 10: Source Drawing Queries

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

Chapter 11: Stylizing

- About the Display Manager
- Stylizing FDO Features

Chapter 12: Plotting Maps

- Prepare a Layout Sheet for Review
- Map Books

Chapter 13: Survey Data

- Creating Survey Data Stores
- Working with Survey Data Stores

Chapter 14: Industry Models

- Open, Edit, and Create an Industry Model

Appendix A: Additional Exercises

- Point Clouds