



Overview

This learning guide introduces students to drawing based and geospatial features within the AutoCAD® Map 3D software.

Students learn about the features and functions of the AutoCAD Map 3D software, including how to create, manage, and map data. The learning guide covers the fundamental topics of the AutoCAD Map 3D software.



Duration

3 Days (08:30 – 16:00)



Pre-requisites

This learning guide is designed for the student who is new to the AutoCAD Map 3D software. It is recommended that you have a working knowledge of the following:

- Creating, opening, and saving drawing files, changing the display of a drawing by zooming and panning, displaying and docking toolbars, saving and restoring named views, using object snaps, and managing layers and controlling layer visibility.
- Microsoft® Windows® software. Before taking this course, students need to have a good working skill level in the AutoCAD software. A minimum of 80 hours of work experience with the AutoCAD software is recommended.



Course Outline

Getting Started

- 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 Classifications
- Classify, Select, and Create Classified Objects

Importing and Exporting Drawing-Based Data

- Importing and Exporting Data

Establishing a Geospatial Environment

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

Editing Features

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

Working with Raster Images

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

Working with Source Drawings

- Attaching Source Drawings
- Working with Coordinate Systems

Using Source Drawing Queries

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

Stylizing Drawings and Features

- About the Display Manager
- Stylizing FDO Features

Plotting Maps

- Prepare a Layout Sheet for Review
- Map Books

Survey Data

- Creating Survey Data Stores
- Working with Survey Data Stores

Industry Models

- Open, Edit, and Create an Industry Model