

## AutoCAD® Map 3D – Essential for Geospatial

**Course length: 3 days**

### Pre-requisites:

Basic knowledge of AutoCAD

### Topics covered:

#### Essential

- **AutoCAD Map 3D User Interface**
  - Introduction to the Map 3D User Interface
- **Creating Map Geometry**
  - Establishing Coordinate Systems in Maps
  - Performing Drawing Cleanup
  - COGO data
- **Working with Attribute Data**
  - Working with Object Data
  - Working with External Databases
    - Link drawing objects to external databases
- **Object Classification**
  - Creating Object Classes
  - Classifying Objects
- **Working with Raster Images**
  - Inserting Raster Images
  - Modifying Raster Image Properties in a Drawing
- **Importing and Exporting**
  - Importing data from external sources
  - Exporting data to external formats
- **Using Attached Source Drawings**
  - Managing Source Drawings
- **Source Drawing Queries**
  - Executing Location and Property Queries
  - Executing Data Queries
  - Altering Data and Save Back

- **Working with Topologies**
  - Creating Network Topologies
  - Creating Polygon Topologies
  - Performing Topology Analysis
- **Map Output**
  - Creating Map Books

## Geospatial

- **Connecting to Feature Sources**
  - Connecting to SHP and SDF
  - Working with Feature Layers
  - Connecting to Raster Aerial Photos and Surfaces
  - Connecting to ODBC data store
  - Working with Survey Stores
- **Stylizing Features**
  - Stylizing lines, points, polygons
  - Stylizing Raster Features
  - Scale Dependant Styles
  - Applying Themes
- **Working with Features**
  - Creating Feature Filters and Feature Queries
  - Editing Geometry and Attributes
  - Creating Joins
  - Using Constraints
  - Bulk Copy