

## AutoCAD® Map 3D 2010 – Essential for Geospatial

**Course length: 3 days**

### Pre-requisites:

Basic knowledge of AutoCAD

### Topics covered:

#### Essential

- **Getting Started**
  - Introduction to the Map 3D 2010 User Interface
- **Creating and Editing Geometry**
  - Performing Drawing Cleanup
- **Linking and Managing Drawing-Based Attribute Data**
  - Creating and Managing Object Data
  - Working with External Databases
    - Link drawing objects to external databases
- **Importing and Exporting Drawing-Based Data**
  - Perform a data import
  - Perform a data export
- **Working with Raster Images**
  - Inserting Raster Images
  - Modifying Raster Image Properties in a Drawing
- **Working with Source Drawings**
  - Source Drawing Concepts
  - Attaching and Working with Source Drawings
  - Working with Coordinate Systems
- **Using Source Drawing Queries**
  - Defining Queries by Location, Attribute Data, Object Properties or Compound
  - Using the Query Library
  - Altering Properties During Queries
  - Editing in a Multiple-Drawing Environment
- **Survey Data**
  - Creating Survey Data Stores
  - Importing ASCII Points
  - Creating and Editing Survey Points

## Geospatial

- **Establishing a Geospatial Environment**
  - Connecting to a Feature Source
  - Working with Point Data
  - Using Coordinate Systems
  - Filtering Features During Connection
- **Stylizing Features**
  - Change Colors, Patterns, Symbols, Linetypes
  - Add labels, and Scale Ranges with the Style Editor
- **Creating Features**
  - Creating Data in SDF format
  - Adding Data Constraints
  - Adding Data Validation
- **Editing Data**
  - Editing Feature Attributes and Geometry
  - Working with DEM Data
    - Create contours
    - Create styles
  - Converting Data from DWG to FDO Features
  - Merge and Split Features
- **Managing Features**
  - Join Tables
  - Creating and Using Buffers
  - Create Calculated Properties
  - Using Overlay Analysis
- **Workflows**
  - Using Workflow Designer for Overlay Analysis