

# AutoCAD Civil 3D for Surveyors

## 2-day class

The AutoCAD Civil 3D for Surveyors course is for surveyors and survey technicians that do not necessarily need all of the functionality taught in the Civil 3D New User course. This class will equip the surveyor with basic knowledge needed to use AutoCAD Civil 3D efficiently in a typically daily workflow.

You will learn how to import the converted field equipment survey data and use automation tools to create an existing condition plan. Data collection, least square analysis and traverses are also covered.

- **The AutoCAD Civil 3D Interface**
  - Locate Features/Commands within the Ribbon, Command Line and Toolspace
  - Introduction to Workspaces
- **Connecting to Geospatial Data**
  - Identify Tools Found in Planning and Analysis Workspace
  - Setup Drawing Coordinate System for New Drawing
  - Connect to GIS Data
  - Surface Creation from a Shape File Containing Elevation Data
- **Survey Setup**
  - Utilize Survey Workflows for Creating Linework from Coordinate Files
  - Display Survey Toolspace and Collections
  - Creating a Figure Database
  - Setting up a New Survey Database in Working Folder
  - Inputting Lines and Curves
  - Traverses
  - Mapcheck to Find Error of Closures
- **Points**
  - Point Marker and Label Styles
  - Creating Points Using Transparent Commands
  - Utilizing Description Key Sets
  - Importing/Exporting Points
  - Working with Point Groups
  - Generating Point Reports
- **Points with Connective Codes**
  - Field Codes
  - Importing Figures
  - Translating a Survey Database
- **Field Book Files**
  - Survey Networks
  - Importing a Field Book
  - Working with Figures
- **Surfaces**
  - Building Surfaces from Survey Data
  - Editing Surfaces
  - Surface Analysis
  - Working with Contours