

Civil 3D Survey Fundamentals Field to Finish

Course | 2 days

Class Hours | 8:30am - 4:30pm



AutoCAD Civil 3D Survey Fundamentals – Field to Finish has been developed for surveyors and survey technicians that do not necessarily need all of the functionality that is covered in the AutoCAD Civil 3D Fundamentals training guide. You will learn the basics of Civil 3D so that you are comfortable working in the Civil 3D environment. Other topics are driven by topics of the survey profession.



Prerequisite: AutoCAD Fundamentals and a working knowledge of the Survey profession.

Autodesk
Authorized Training Center

Visit mwcad.com for a complete class schedule or call us at 800-279-3221.

What students are saying about our courses:

“I loved how the instructor focused the materials to our needs and uses. Great course!”

- Matthew Crockett, Aquaterra Environmental Solutions

“The class was very good. I was skeptical about trying to take such a high-tech class but the instructor made the course not only doable but also enjoyable.”

- Judy Looney, Water One

AutoCAD Civil 3D Interface

- Civil 3D Overview, Civil 3D Workspaces, Civil 3D User Interface, Civil 3D Toolspace, Civil 3D Panorama View, Civil 3D Ease of Use Settings

Points Overview and Styles

- Points Overview, Point Styles, Point Label Styles, Description Key Sets

Importing Points and Coordinate Transformation

- Importing and Exporting Points, Transforming Points on Import or Export

Creating Points and Drafting

- Point Settings, Creating Points, Lines and Curves, Transparent Commands, Labeling in Civil 3D, Line and Curve Label Styles

Point Groups, Grips, and Reports

- Point Groups, Point Reports

Point Security and Editing

- Locking/Unlocking Points, Reviewing/Editing Points

Survey Basics

- Survey Workflow, Figure Commands, Data Conversion, Coordinate Files to Fieldbook, Fieldbooks

Civil 3D Survey and Automated Linework

- Introduction to Survey Toolspace, Survey Figures, Figure Styles, Figure Prefix Database, The Survey Toolspace, Creating a Network, Importing Fieldbooks, Working with Figures, Linework Code Sets, Translating the Survey Database, Coordinate Systems.

Survey Networks

- Networks, Reviewing Import Results

Survey Least Squares

- Least Squares, Creating a Least Squares Input File, Blunder Detection Analysis

Traverses and their Adjustments

- Traverse Basics, Fixing Survey Errors, Defining a Traverse, Adjusting Reports

Traverse Loop and Closed Connected Loop Adjustments

- Multiple Network Surveys

Surface Overview

- Surface Process, Surface Styles, Properties, Breaklines and Boundaries, Contour Data, Analysis

Surface Editing, Labels and Analysis

- Surface Editing, Adjusting Surfaces through Properties
- Surface Labeling, Surface Volume Calculation, Analysis Display, Viewing Surfaces in 3D

Sharing Data and Google Earth

- Data Shortcuts, Optional Practices, Google Earth Interoperability