

Civil 3D Fundamentals

Course | 4 days *

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



AutoCAD Civil 3D Fundamentals is designed for Civil Engineers and Surveyors who want to take advantage of AutoCAD Civil 3D's interactive, dynamic design functionality. AutoCAD Civil 3D permits the rapid development of alternatives through its model-based design tools. You will learn techniques enabling you to organize project data, work with points, create and analyze surfaces, model road corridors, create parcel layouts, perform grading and volume calculation tasks and lay out pipe networks.

Prerequisite: AutoCAD Fundamentals and a working knowledge of civil engineering concepts.



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

* The suggested course duration is a guideline. Course topics and timeline may be modified by the Instructor based upon the knowledge and skill level of the course participants.

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

Parcels

- Parcels Overview, Introduction to Parcels, ROW Parcel, Parcel Display Order, Parcel Properties, Parcel Labels and Styles, Create Parcels from Objects, Creating ROW Parcels
- Subdividing Parcels, Creating and Editing Parcels by Layout, Renumbering Parcels
- Parcel Reports, Parcel Labels, Parcel Tables

Survey

- Survey Toolspace, Survey Workflow Overview, Creating a Survey Database, Survey Networks
- Civil 3D Points Overview, Point Styles, Point Settings, Creating Points, Description Key Sets, Importing and Exporting Points, Point Groups, Reviewing and Editing Points, Locking and Unlocking Points, Point Reporting
- Survey Figures, Survey Figure Prefixes, Importing a Field Book, Working with Figures

Surfaces

- Civil 3D Surface Overview, Surface Process, Surface Properties, Contour Data, Other Surface Data, Breaklines and Boundaries, Analysis Tools
- Surface Editing, Adjusting through Properties, Viewing Surfaces in 3D
- Surface Labels and Analysis, Volume Calculations, Analysis Display

Alignments

- Roadway Design Overview, Sites, Criteria Based Design, Segment Types, Layout Tools, Editing, Properties, Labels and Tables

Data Sharing

- Civil 3D Projects, Single Drawing Design, Multiple Drawing Design, Sharing Data
- Data Shortcuts, Update Notification, Removing and Promoting Shortcuts, eTransmit Data References, Workflow Details

Profiles

- Civil 3D Profile Overview, Repositioning and Deleting Profile Views, Profiles from Surface, Profile View Wizard, Finished Ground Profiles, Create and Edit Profiles, Profile Bands, Segment Types, Labeling

Corridors

- Assembly Overview, Assemblies, Subassemblies, Modifying Assemblies, Copying & Mirroring Assemblies, Sharing Assemblies
- Creating a Corridor, Target Mapping, Corridor Properties, Corridor Surfaces, Corridor Surface Boundaries

Grading

- Grading Overview, Configuring Grading, Pond Grading

Pipe Networks

- Pipes Overview, Pipe Configuration, Network Layout Toolbar, Creating from Objects, Creating by Layout, Editing, Annotation and Tables

Quantity Takeoff / Cross Sections

- Sample Lines, Creating Cross Sections, Section Views
- Quantity Takeoff, Section View Volume Calculations

Plan Production

- Plan Production Tools, Plan Production Objects, Object Edits, Creating Sheets, Sheet Sets