

AutoCAD® Civil 3D® Complete Guide

AutoCAD® Civil 3D® software is a Building Information Modeling (BIM) solution for civil engineering design and documentation. AutoCAD Civil 3D helps civil engineering professionals working on transportation, land development, and water projects stay coordinated and more easily and efficiently explore design options, analyze project performance, and deliver consistent, higher quality documentation - all within a familiar AutoCAD® environment. Perform geospatial analysis and extend Civil 3D model data for storm water analysis and interactive 3D simulations and visualizations. You can also generate quantity takeoff information and support automated machine guidance during construction. Civil 3D helps you gain the competitive advantage of BIM to deliver more innovative project solutions.

AutoCAD® Civil 3D® Complete Guide is designed to give you a solid understanding of Civil 3D features and capabilities from the basics through to advanced components. Every course is designed to use all learning styles from text, audio, video, interactivity, quizzes to practical “Let Me Try” examples.

User's prerequisites

You don't need any previous experience with AutoCAD® Civil 3D to take this course.

Course Outline

Navigating the Civil 3D User Interface

- Getting to Know the Civil 3D User Interface
- Using the Toolspace
- Using the Drawing Area, Command Line, Panorama, and the Transparent Commands Toolbar

Leveraging a Dynamic Environment

- Connecting Objects and Styles
- Connecting Labels and Label Styles
- Connecting Objects to Objects
- Connecting Objects to Labels, The Richness of the 3D Model
- Sharing Data in a Dynamic Environment

Establishing Existing Conditions Using Survey Data

- Creating a Survey Database
- Importing Survey Data
- Automating Field to Finish
- Editing Survey Points, Editing Survey Figures, Creating Additional Points

Modeling the Existing Terrain Using Surfaces

- Understanding Surfaces
- Using Breaklines
- Editing Surfaces
- Displaying and Analyzing Surfaces
- Annotating Surfaces

Designing in 2D Using Alignments

- Understanding Alignments, Creating Alignments from Objects
- Creating Alignments Using the Alignment Creation Tools
- Editing Alignments
- Applying Design Criteria Files and Check Sets

Displaying and Annotating Alignments

- Using Alignment Styles, Applying Alignment Labels and Label Sets
- Creating Station/Offset Labels, Creating Segment Labels
- Using Tag Labels and Tables

Designing Vertically Using Profiles

- Creating Surface Profiles
- Editing Profiles
- Using Design Check Sets and Criteria Files

Displaying and Annotating Profiles

- Applying Profile Styles
- Applying Profile View Styles, Profile View Bands and Profile Label Sets
- Creating Profile View Labels, Projecting Objects to Profile Views

Designing in 3D Using Corridors

- Understanding Corridors
- Creating Assemblies and Corridors and Applying Corridor Targets
- Creating Corridor Surfaces

- Creating Cross Sections of the Design
- Using the Section Editor
- Creating Sample Lines
- Creating Section Views
- Sampling More Sources

Displaying and Annotating Sections

- Applying Section Styles and Section Labels
- Controlling Section Display and Applying Labels with Code Set Styles
- Applying Section View Styles, Applying Group Plot Styles
- Creating Section View Labels

Designing Boundaries Using Parcels

- Understanding Parcels
- Creating Parcels from Objects, Creating Parcels by Layout
- Editing Parcels

Displaying and Annotating Parcels

- Applying Parcel Styles
- Applying Parcel Area Labels, Creating Parcel Segment Labels
- Editing Parcel Segment Labels, Creating Parcel Tables

Designing Gravity Pipe Networks

- Understanding Gravity Pipe Networks
- Creating Gravity Pipe Networks
- Editing Gravity Pipe Networks

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AutoCAD® Civil 3D® Complete Guide (cont'd)

Course Outline (cont'd)

Designing Pressure Pipe Networks

- Understanding Pressure Pipe Networks
- Creating Pressure Pipe Networks
- Editing Pressure Pipe Networks

Displaying and Annotating Pipe Networks

- Displaying Pipe Networks Using Styles
- Annotating Pipe Networks in Plan View
- Annotating Pipe Networks in Profile View
- Creating Pipe Network Tables

Designing New Terrain

- Understanding Grading
- Understanding Feature Lines
- Creating and Editing Feature Lines
- Understanding Grading Objects
- Creating and Editing Grading Objects

Analyzing, Displaying, and Annotating Surfaces

- Combining Design Surfaces
- Analyzing Design Surfaces
- Calculating Earthwork Volumes
- Labeling Design Surfaces

From Design to Construction

- Calculating Quantities
- Creating Individual Sheets
- Creating Multiple Sheets Using Plan Production

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