

**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:** Completed AutoCAD Fundamentals course or 1 year of AutoCAD production experience.

## User Interface

Product Overview, Civil 3D Workspaces & User Interface, Civil 3D Toolspace, Panorama, Templates, Settings, & Styles

## Project Management

Single-Design Drawing Projects, Sharing data with Data Shortcuts, Autodesk Vault Overview, Using Data Shortcuts for Project Management

## Parcels

Lines & Curves, Introduction to Parcels, Creating & Editing Parcels, Renumbering, Reports, Labels & Tables

## Survey

Survey Workflow, Survey Figures, Points Overview, Point Settings, Creating Points, Description Keys, Importing Survey Data, Point Groups, Reviewing & Editing Points, Manipulating Points, Point Reports

## Surfaces

Surface Process, Surface Properties, Contour Data, Other Surface Data, Breaklines & Boundaries, Surface Editing, Surface Analysis Tools, Surface Labels, Surface Volume Calculation, Surface Analysis Display

## Alignments

Roadway Design Overview, Civil 3D Sites, Introduction to Alignments, Alignment Layout Tools, Alignment Properties, Labels & Tables

## Profiles

Profiles Overview, Profile View Styles, Surface Profiles, Creating Profile Views, Finished Ground Profiles, Creating & Editing Profiles

## Corridors

Assemblies Overview, Creating & Modifying Assemblies, Creating a Corridor, Corridor Properties, Designing Intersections, Corridor Surfaces, Corridor Section Review & Edit, Corridor Visualization

## Grading

Grading Overview, Feature Lines, Grading Tools, Creating Grading Groups, Modifying Grading and Volume Calculation

## Pipe Networks

Pipes Overview, Pipes Configuration, Creating Pipes from Objects, Network Layout, Network Editing, Annotating Pipe Networks, Pressure Pipe Networks Overview, Creating, Editing & Annotating Pressure Pipe Networks

## Quantity Take Off/Sections

Sample Line Groups, Creating Sections, Section Volume Calculation, Pay Items, Section Views

## Plan Production

Plan Production Tools, Plan Production Objects, Editing Plan Production Objects, Creating Sheets, Sheet Sets for Plan Production

### 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 instructor was very knowledgeable and ensured everyone grasped the concepts before moving on. He answered all questions even if they were outside the scope of the class. Great Job!"  
- *Vern Howard, Honeywell FM&T*

\* 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.