

Civil 3D Survey Fundamentals has been developed for surveyors and survey technicians that do not need to know all of the functionality that is covered in the Civil 3D Fundamentals training guide. You will learn the basics of Civil 3D so that you are comfortable working with the software, but the course topics are driven by the survey profession.

Prerequisite: Completed AutoCAD Fundamentals course and a working knowledge of the survey profession.

AutoCAD Civil 3D Interface

Civil 3D Overview, Workspaces, User Interface, Tool-space, Panorama, Ease of Use Settings

Points Overview and Styles

Points Overview, Point Object & Label Styles, Description Keys

Importing Points and Coordinate Transformation

Importing & Exporting Points, Transforming Points on Import or Export

Creating Points and Drafting

Point Settings, Creating Points, Lines & Curves, Transparent Commands, Civil 3D Labeling, Line & Curve Styles, Point Groups & Reports, Locking & Unlocking Points, Reviewing & Editing Points

Survey Basics

Survey Workflow, Figures, Data Conversion, Coordinate Files to Fieldbook, Fieldbook Overview

Survey Database and Automated Linework

Introduction to Survey Toolspace, Figures, Figure Styles, Figure Prefix Database, Survey Database, Importing Data, Creating Networks, Working with Figures, Linework Code Sets, Translating the Survey Database, Coordinate Systems

Survey Adjustments

Least Squares Analysis, Traverse Analysis & Adjustment, Traverse Loop & Close Connected Loop Adjustments.

Surfaces

Surface Process, Surface Styles, Properties, Breaklines & Boundaries, Contours, Analysis, Creating & Editing Surfaces, Surface Labeling & Analysis

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.