



This hands-on foundation-level course covers the essentials of AutoCAD® Civil 3D® for Surveyors. Students will learn how to export data from field equipment and import the converted data into to AutoCAD Civil 3D and create an existing condition plan.

Prerequisites: Before starting this course, students should have working knowledge of AutoCAD® and understand basic surveying concepts. It is also recommended that the student have a working knowledge of Microsoft® Windows® XP.

Register Online: [Click here.](#)



Visit www.ideateinc.com for a complete class schedule.
Or call our Training Department at 888.662.7238.

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Objectives

The primary objective of the course is to familiarize students with the concepts and application of the essential functions of AutoCAD Civil 3D as it relates to the Surveyor.

After completing this course, students should be able to:

- Import and work with survey data using figures
- Work with the survey toolspace and survey database
- Create points, change point styles, and manage point groups
- Create, edit and analyze surfaces
- Use data shortcuts for sharing data
- Publish survey data to Google Earth

Who Should Attend

Surveyors and survey technicians

Course Outline

AutoCAD Civil 3D Interface

- Civil 3D workspaces
- Civil 3D Toolspace
- Civil 3D Panorama

Points Overview and Styles

- Point Styles
- Point Label Styles

Points and Style Transfer

- Importing and Exporting Points
- Description Key Sets
- Transferring Styles

Drafting

- Lines and Curves
- Transparent Commands
- Labeling

Creating, Managing and Reporting Points

- Point Groups
- Point Reports
- Repositioning Point Labels
- Point Settings
- Creating Points

Point Security, Editing and AutoCAD Layer Concepts

- Locking and Unlocking Points
- Reviewing and Editing Points
- AutoCAD Layers vs. Civil 3D Styles

Introduction to Data Collection in the Field

- Survey Workflow Overview
- Figure Commands
- Data Conversion
- Fieldbooks

Introduction to Civil 3D Survey and Automated Linework

- Survey Toolspace
- Translating Survey Database
- Working with Figures
- Coordinate Systems

Surface Overview

- Surface Process
- Overview of Surface Styles
- Surface Properties
- Breaklines and Boundaries
- Contour Data
- Other Surface Data
- Surface Analysis Tools

Surface Editing

- Adjusting Surfaces Through Surface Properties

Surface Labels and Analysis

- Surface Labels
- Surface Volume Calculations
- Surface Analysis Display
- Viewing Surfaces in 3D

Sharing Data and Google Earth

- Data Shortcuts
- Google Earth