



# Autodesk Civil 3D 2009 for Surveyors

## Course Description

This hands-on, foundation-level course covers the essentials of Autodesk® Civil 3D® software, as it applies to Land Surveyors, including how to work with point data in Autodesk Civil 3D, create and analyze a surface, create a site boundary, as well as import and export data.

Hands-on exercises throughout the course explore how to create 2D and 3D survey drawings.

**Course Duration:** 2 days

**Cost :** E590.00

## Objectives

The primary objective of the course is to familiarize students with the concepts and application of the essential functions of Autodesk Civil 3D as they apply to Land Surveying.

After completing this course, students should be able to

- Create points, change point styles, and manage points in groups
- Set up description files
- Import data in raw, ASCII and fbk format
- Export point data for setting out
- Create, edit, and analyze surfaces
- View surfaces in 3D
- Create parcels and parcel tables
- Import Autodesk® Land Desktop data and export Autodesk Civil 3D data

## Who Should Attend

Land Surveyors, Civil Engineers, technicians or draughting personnel working with AutoCAD, Land Desktop or Civil 3D for creating, and using data from, topographical survey drawings.

## Prerequisites

Students should have a working knowledge of AutoCAD 2002 or later.

## Course Outline

### Day 1

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#### Working with Point Data

- Creating and Editing Points
- Importing Points
- Changing Point Styles
- Creating Description Keys
- Importing Land Desktop description key files
- Managing Points
- Using Transparent Commands
- User Defined Properties
- Exporting point, alignment and corridor data

#### Survey Module

- Importing survey control network data from a field book
- Working with survey add-on modules
- Create a local survey database, modify the database settings, and modify survey user settings



## Day 2

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### Surface Modeling

- Creating a Surface from LandXML
- Creating a Surface from point data
- Breaklines
- Editing a Surface
- Analyzing a Surface
- Contours
- Adding Masks, Borders, and Contour Labels
- Viewing a Surface in 3D

### Sharing Data

- Importing Autodesk Land Desktop Data
- Sharing Civil 3D Data
- Data Check In and Check Out
- Data Shortcuts

### Site Development

- Creating Parcels
- Labeling Parcels
- Generating Parcel Tables and Reports

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