

Introduction to Land Desktop Civil Design – 16.0 Hours (2 Days)

Course Description

Summary

This course explores the capabilities in AutoCAD® Civil 3D® Land Desktop Companion for Civil Designers, Engineers, Surveyors and Planners. The class introduces the Land Desktop Civil project, and provides an in-depth examination of tools for point management, including point groups and the organization of points in the drawing using Description Keys. Other topics include base plan creation, layout, digital terrain modeling, contouring and volume calculations. The class examines both baseline station and offset design tools for road and corridor applications, and parcel and lot layout functions for site design. Tools are illustrated for providing a comprehensive project management solution through labeling, tables and annotation, as well as new features for large drawing and project management.

Representative Topics

Application of Design Control
Cross Section Design Templates
Cross Section Sampling
Daylighting Requirements and Settings
Design Control Modification in Sections
Detailed Template Control Characteristics
Grading - Surface Concepts
Grading from Constraints and Limits
Grading Objects in Pre-graded Blocks
Interim Surface Grading
Multiple Slope Daylighting

Partial Daylighting/Daylight Editing
Point Grading and Editing
Profile Editing and Reporting
Profile-Grading Object Interaction
Profile Sampling
Single Slope Daylighting
Profile Design
Surface Preparation from Section Data
Template Application and Control
3D Polyline Grading
Working with the Grading Object

Prerequisites

Thorough familiarity with AutoCAD® is essential and familiarity with AutoCAD Civil 3D Land Desktop Companion.



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