

Civil 3D Intro for Commercial Site Grading



Duration | 2 Days

Description:

This class takes students through a Commercial Site Grading project using AutoCAD Civil 3D. Students use feature lines and grading tools to create a commercial site containing a parking lot, building pad, pond and a simple sewage lagoon system with an outfall structure and piping. An existing road has been included in the survey and a survey team collected the existing conditions. A comma delimited ASCII coordinate file in a Point number, Northing, Easting, Elevation, Description format is provided.

Prerequisites:

Before starting this course, students should have a working knowledge of AutoCAD® Civil 3D Fundamentals and civil engineering principles and processes. It is also recommended that the student have a working knowledge of Microsoft® Windows® XP.

Objectives:

The primary objective of the course is to familiarize students with the concepts and applications of the site grading functions of AutoCAD Civil 3D.

Upon completion of the course, the student will:

- Use feature lines and grading tools to layout and grade a commercial site design. The site will include: a parking lot, building pad, a sewage lagoon system with an outfall and an existing road.

Course Outline:

The Civil 3D Environment

- AutoCAD Civil 3D Interface
- Object Base Layer
- Object Component Layers

Toolspace

- Prospector Tab Overview
- Settings Tab Overview
- Survey Tab Overview
- Toolbox Tab Overview
- Point Desc. Keys Overview
- Point Groups Overview

Settings and Defaults

- Create a New Drawing
- Drawing Settings
- Label Style Defaults
- Edit Feature Settings
- Edit Command Settings

Training Facilities

Virginia Beach, VA
Richmond, VA
Roanoke, VA

Inlet Technology

192 Ballard Court
Suite 306
Virginia Beach, VA
23462

Ph: 757.496.2323
Fax: 757.496.2424

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Object Styles

- Overview of Styles
- Create New Point Styles
- Create Point Groups
- Create Points
- Create New Surface Styles
- Create New Group Plot Style
- Create a Drawing Template

Build and Edit Surfaces

- Create a New Surface
- Create a TIN Boundary
- Create Breaklines
- Add Surface Data
- Editing Surfaces
- Surface Display
- Add Contour Labels
- Contour Label Style

Sharing Civil 3D Objects

- Export to LandXML
- Data Shortcuts Overview
- Creating Data References

Building Pad Design

- Import Site Layout
- Create Feature Lines
- Grading to a Surface
- Editing the Grading
- Automatic Grading Surface
- Grading Volumes
- Surface Volumes

Parking Lot Design

- Create Surface Points
- Draw Feature Lines
- Stepped Offsets
- Create a Grading Group
- Add Feature Lines to a Surface

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Pond Design

- Multiple Grading Objects
- Grade to Relative Elevation
- Grade to Distance
- Grade to Surface
- Create Infill
- Surface Creation
- Grading Volumes
- Balance Volumes
- Quick Profile

Lagoon Design

- Convert Plines to Feature Lines
- Aeration Pond Feature Lines
- Lagoon Feature Lines
- Create the Design Surface
- Calculating Earthwork Volumes
- Create an Alignment
- Create a Profile View
- Create Outfall Structure and Piping

Combining Surfaces

- Final Grading Surface
- Paste Surfaces

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Inlet Training Class Registration Form



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Customer Information

Company _____
Address _____
City _____ State _____ Zip _____
Primary Contact _____
Telephone _____ eMail _____

Training Class Information

Class Name _____
Class Start Date _____ Duration (# of days) _____
Student 1 _____ eMail _____
Student 2 _____ eMail _____
Student 3 _____ eMail _____
Student 4 _____ eMail _____
Student 5 _____ eMail _____
Student 6 _____ eMail _____
Student 7 _____ eMail _____
Student 8 _____ eMail _____
Student 9 _____ eMail _____
Student 10 _____ eMail _____

Payment Information

CREDIT CARD

Type (Circle One) Visa Mastercard American Express
Credit Card Number _____
Expiration Date _____ 3-4 digit Verification Code _____
Name on Card _____ Amount to be Charged \$ _____
Billing Address _____

CHECK

Check Number _____ Amount \$ _____

PURCHASE ORDER

PO Number _____ Amount \$ _____
Purchasing Contact _____ Telephone _____
e-Mail _____

NOTE: Please fax copy of PO with Registration Form

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