



# OVERVIEW OF COURSE

## AutoCAD Civil 3D Grading

**Course Length: 3 days**

The AutoCAD Civil 3D software supports a wide range of civil engineering tasks and creates intelligent relationships between objects. This interactive 2 day training course is recommended for students that are required to create site grading plans using the AutoCAD Civil 3D software. This training course is also ideal for managers that require a basic overview and understanding of this aspect of the AutoCAD Civil 3D software. Students use feature lines and grading tools to create a commercial site containing a parking lot, building pad, pond, and simple sewage lagoon. An existing road has been included in the survey and a survey team collected the existing conditions. Students also work on a residential site to grade a small subdivision for proper grading of each lot.

Topics include:

- Introduction to Grading
- Parcel Grading
- Building Pad Design
- Parking Lot Design
- Pond Design
- Lagoon Design
- Combining Surfaces
- Visualization of Grading

### Prerequisites:

AutoCAD Civil 3D Fundamentals



# OVERVIEW OF COURSE



## Table of Contents

### Chapter 1 Introduction to Grading

- 1.1 Overview
- 1.2 Tools in AutoCAD Civil 3D
- 1.3 Settings and Defaults
- 1.4 Feature Line Styles
- 1.5 Grading Group Styles
- 1.6 Grading Criteria Sets
- 1.7 Surface Styles
- 1.8 Sites Overview

### Chapter 2 Parcel Grading

- 2.1 Setting Parcel Line Elevations
- 2.2 Retaining Walls
- 2.3 Editing Surfaces
- 2.4 Feature Line Interactions With Parcel Lines

### Chapter 3 Building Pad Design

- 3.1 Feature Lines Overview
- 3.2 Create Feature Lines from Objects
- 3.3 Grading Creation Tools
- 3.4 Editing the Grading
- 3.5 Grading Volume Tools

### Chapter 4 Parking Lot Design

- 4.1 Draw Feature Lines
- 4.2 Create a Temporary Surface
- 4.3 Edit Feature Line Geometry
- 4.4 Copy or Move Feature Lines from One Site to Another
- 4.5 Create a Transitional Grading Group
- 4.6 Create a Grading Surface
- 4.7 Add Feature Lines to a Grading Surface



# OVERVIEW OF COURSE



## Chapter 5 Pond Design

- 5.1 Feature Line Review
- 5.2 Edit Elevations
- 5.3 Create Feature Lines from Corridors
- 5.4 Edit Geometry
- 5.5 Creating Complex Grading Groups

## Chapter 6 Lagoon Grading

- 6.1 Alignments
- 6.2 Profiles
- 6.3 Create Grading Assemblies
- 6.4 Creating Complex Corridors
- 6.5 Modify Corridor Grading

## Chapter 7 Combining Surfaces

- 7.1 AutoCAD Civil 3D Projects
- 7.2 Sharing Data
- 7.3 Data Shortcuts

## Chapter 8 Visualization

- 8.1 Introduction to the 3D Modeling Workspace
- 8.2 Basic 3D Viewing Tools
- 8.3 3D Navigation Tools
- 8.4 Working with Materials
- 8.5 Specifying Light Sources
- 8.6 Rendering Concepts



# OVERVIEW OF COURSE



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