

Autodesk AutoCAD Civil 3D Grading - Site, Commercial, Residential and Transportation

Brief Synopsis of Class Contents:

The AutoCAD Civil 3D software supports a wide range of civil engineering tasks and creates intelligent relationships between objects. This training is recommended for students that are required to create site grading plans using the AutoCAD Civil 3D software. This training is also ideal for managers that require a basic overview and understanding of this aspect of the AutoCAD Civil 3D software.

Engineers and designers 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. Users also work on a residential site to grade a small subdivision for proper grading of each lot.

Learning Objectives:

- Introduction to Grading
- Parcel Grading
- Building Pad Design
- Parking Lot DesignPoint security and editing
- Pond Design
- Lagoon DesignSurvey networks
- Combining Surfaces
- Visualization of Grading

Courseware:

Instructor Handouts

Number of Days:

5 Half Day Sessions

Continuing Education Hours:

18 hours

Who Should Attend:

Architects, Engineers and Master Planners

Prerequisites:

AutoCAD fundamentals knowledge and experience.

System and Software Requirements:

<http://www.asti.com/LiveLab-Learning-amp-Training/LiveLab-System-Requirements>

FAQs and Cancellation Policy:

<http://www.asti.com/LiveLab-Learning-amp-Training/LiveLab-FAQS>

Class Outline and Topics:

Chapter or Main Topic

- Introduction to Grading
- Overview
- Tools in AutoCAD Civil 3D
- Setting and Defaults
- Feature Lines
- Grading Group Styles
- Surface Styles
- Site Overview
- Parcel Grading
- Setting Parcel Line Elevations
- Retaining Walls
- Editing Surfaces
- Feature Line Interaction
- Building Pad Design
- Feature Line Overview
- Creating feature Lines from Objects
- Grading Creation Tools
- Editing Grading
- Grading Volume Tools
- Parking Lot Design
- Draw Feature Lines
- Creating Temporary Surfaces
- Stepped Offsets
- Transitions with Feature Lines
- Create Grading Surface
- Pond Design
- Feature Line Review
- Edit Elevation
- Edit Geometry
- Complex Grading
- Lagoon Grading
- Alignments
- Profiles
- Create Grading Assemblies
- Creating Complex Corridors
- Combining Surfaces
- AutoCAD Civil 3D Projects
- Sharing Data
- Data Shortcuts

