

Autodesk® AutoCAD Civil 3D® - Fundamentals

Brief Synopsis of Class Contents:

AutoCAD Civil 3D permits rapid development of alternatives through its model base-based design tools. You will learn techniques enabling you to organise project data, work with points, create and analyze surfaces, model road corridors, create parcel layouts, perform grading and volume calculations tasks, and layout pipe networks.

Learning Objectives:

- Learn the AutoCAD Civil 3D User Interface
- Create and edit parcels and print parcel reports
- Create points and point groups and work with survey figures
- Create, edit, view, and analyze surfaces
- Create and edit alignments
- Create grading solutions
- Perform quantity takeoff and volume calculations
- Use plan and production tools to create plan and profile sheets

Courseware:

Ascent AutoCAD Civil 3D® - Fundamentals

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:

- The AutoCAD Civil 3D User Interface
- AutoCAD Civil 3D Workspaces
- AutoCAD Civil 3D User Interface
- AutoCAD Civil 3D Toolspace
- AutoCAD Civil 3D Panorama
- Templates, Settings, Styles
- Project Management
- AutoCAD Civil 3D Projects
- Sharing Data
- Data Shortcuts for Project Mgmt
- Parcels
- Lines and Curves
- Introduction to Parcels
- Creating/Editing by Layout Overview
- Creating/Editing Parcels
- Renumbering Parcels
- Parcel Reports, Labels, Tables
- Survey
- Survey Workflow Overview
- Introduction to Survey Toolspace
- Survey Figures
- Points Overview
- Point Settings
- Creating Points
- Description Key Sets
- Importing Survey Data
- Point Groups, Reports
- Surfaces
- Surface Process, Properties, Contour Data
- Breaklines and Boundaries
- Surface Editing, Surface Properties
- Surface Analysis Tools
- Surface Labels, Volume Calculations
- Alignments
- Roadway Design Overview
- AutoCAD Civil 3D Sites
- Introduction to Alignments
- Layout Tools, Properties, Labels and Tables
- Profiles
- Overview
- Create a Profile View Style
- Create Profiles from Surface
- Create Profile View Wizard
- Finished Ground Profiles
- Create and Edit Profiles
- Corridors
- Assembly Overview
- Modifying Assemblies
- Creating a Corridor
- Corridor Properties
- Designing Intersections
- Corridor Surfaces
- Corridor Section Review/Edit
- Grading
- Grading Overview
- Feature Lines
- Grading Tools
- Modifying Grading
- Pipe Networks
- Pipes Overview
- Pipes Configuration
- Creating Networks from Objects

- Network Layout Toolbar
- Network Editing
- Annotating Pipe Networks
- Pressure Pipe Networks
- Quantity Take Off/Sections
- Sample Line Groups
- Section Volume Calculations
- Pay Items
- Section Views
- Plan Production
- Plan Production Tools
- Plan Production Objects
- Plan Production Object Edits
- Creating Sheets
- Sheet Sets

