

Autodesk® AutoCAD Civil 3D® for Surveyors

Brief Synopsis of Class Contents:

AutoCAD Civil 3D for Surveyors equips the surveyor with the basic knowledge needed to use the AutoCAD Civil 3D software efficiently in a typical daily workflow. Students learn how to import the converted field equipment survey data into a standardized environment in the AutoCAD Civil 3D software and to use the automation tools to create an Existing Condition Plan. Data collection, least square analysis, and traverses are also covered.

Learning Objectives:

- Learn the AutoCAD Civil 3D user interface
- Connecting to GIS Data to show existing conditions
- Points overview and styles
- Importing points and coordinate transform
- Point security and editing
- Introduction to data collection in the field
- Introduction to AutoCAD Civil 3D Survey and automated linework
- Survey networks
- Survey least Square analysis
- Traverse and adjustments
- Surface overview
- Surface labels and analysis

Courseware:

Ascent AutoCAD Civil 3D® for Surveyors

Number of Days:

4 Half Day Sessions

Continuing Education Hours:

12 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
- Connecting to Geospatial Data
- Introduction to the Planning and Analysis Workspace
- Coordinate systems
- Geospatial Data connection
- Create Surface from GIS data
- Survey I
- Survey workflow Overview
- Introduction to Survey Toolspace
- Survey Figures
- The Survey Database
- Importing a Field Book
- Points Overview
- Importing and Exporting Points
- Survey II
- Survey Equipment
- Import Field Data
- Figure Prefix Database
- Field Codes
- Translating a Survey Database
- Least Squares
- Traverse Basics
- Multiple Network Surveys
- Surface Data
- Contours
- DEM Files
- Point Groups
- Point Survey Queries
- Breaklines and Boundaries
- Breaklines
- Surface Process
- Surface Editing
- Line edits, Points edits
- Copy surface
- Paste surface
- Surface Analysis Tools
- Surface Labels, Volume Calculations

