

## Class 1211

### Working with Points in AutoCAD Civil 3D – 4.0 Hours (Half Day)

## Workshop Description

### Summary

Points provide the basic interface for representing surveyed existing conditions in AutoCAD® Civil 3D®, and Points are also an essential, but underutilized, tool for use in design and grading. This class explores the nature of the Civil 3D Point: its creation, display, organization and editing.

Civil 3D Points have a greater degree of complexity of organization than Surfaces; Points are controlled by two Styles, Object Styles and Label Styles, and Points interact with other Civil product concepts, such as Point Groups and Description Keys. This class examines the interactions of these and other Point management tools, with the objective of effectively organizing and controlling points to meet various drawing requirements. This class also begins a discussion of strategies for the creation of Civil 3D Styles within an individual firm and the CAD Standards' environment, a discussion elaborated on further in subsequent classes.

Multiple techniques for creating and importing Point data are examined in this class, and particular emphasis is placed on how the Points behave within the drawing, including considerations for data security. Techniques are also examined for the transfer or display of point data created in one-base drawings in other base files within the project.

### Representative Topics

Civil 3D Point Appearance – Point Object Styles, Label Styles and Description Keys

Civil 3D Points and Grip Behavior

Civil 3D Points and the Survey Point Database

Civil 3D Points as 2D versus 3D Objects

Editing Points

Introduction to the Civil 3D Point

Point Creation and Import Commands

Point Display Control through Point Groups

Point Display in the Prospector

Point Locking and Data Security

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#### Learning Objectives

1. Participants will be able to manage the display of Civil 3D point data through Object styles and Label styles to meet individual drawing and project requirements.
2. Participants will be able to describe how Point Groups provide the primary mechanism for point organization and display manipulation in Civil 3D.
3. Participants will be able to describe and use the point display hierarchy in Civil 3D to achieve desired drawing appearance.
4. Participants will be able to describe and use Civil 3D point data locking and security strategies to provide protection for survey point data.

<b>WORKING WITH POINTS IN AUTOCAD CIVIL 3D – HALF DAY</b>	
Overall Course Length	4.0 Hours
Instructional Time	3.5 HOURS
<b>PROFESSIONAL DEVELOPMENT HOURS (PDHs)</b>	
New York State Land Surveyors	3.5 PDHs
New York State Professional Engineers	3.5 PDHs



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