



AutoCAD Civil 3D Surface Modeling for Existing Conditions I **– 1.5 Hours ±**

This is the first of two courses examining the creation of Digital Terrain Models, or Surfaces, in AutoCAD® Civil 3D®, with an emphasis on producing highly-accurate models as efficiently as possible from survey data. This class introduces the data types used in terrain modeling by survey or engineering products, examines surface management within Civil 3D, and explores the control of Civil 3D surfaces using surface styles. The class then uses contour data to develop a Civil 3D surface, with techniques for assessing surface accuracy and TIN editing.

Learning Objectives

1. Participants will be able to describe the three data types used in Digital Terrain Modeling, with examples for each in survey applications as demonstrated in the sample project used in the class.
2. Participants will be able to describe the process of utilizing breakline data to successfully model features of varying elevation and grade in Digital Terrain Models as demonstrated in the sample project used in the class.
3. Participants will be able to describe the process of utilizing contour data to successfully model features of constant elevation and grade in Digital Terrain Models as demonstrated in the sample project used in the class.
4. Participants will be able to describe the process of adjusting Digital Terrain Model display in Civil 3D drawings using Surface styles to meet various drawing and data requirements as demonstrated in the sample project used in the class.

