

## Civil 3D: Essentials Overview

This four-day class is designed for Civil Engineers and Surveyors to develop skills to boost project efficiency and accuracy within Civil 3D. Develop workflows that enable users to organize project data, work with survey data, and create dynamic Civil 3D objects such as Surfaces, Alignments, Profiles, Corridors, Pipe Networks, and more. Users will develop a foundation of how these objects can be created, modified, and how they interact with each other.

### LEARNING OUTCOMES

- Understand the Civil 3D interface and workflows
- Effectively organize and work with survey data
- Create Surfaces, Alignments, Profiles, and Corridors, as well as gain an understanding of the interactions between objects
- Create, edit, and analyze grading objects
- Efficiently work with and manage gravity and pressure networks
- Create construction documents using plan production tools

**COURSE LENGTH** 4 DAYS

**PREREQUISITES**

1. Completed AutoCAD Essentials (or equivalent experience)
2. Basic civil engineering/ design knowledge.
3. Students must have their own Autodesk software installed and working before the first day of class. We cannot troubleshoot software installation during class time.

### COURSE TOPICS

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**Civil 3D Interface**  
**Survey, Points, and Linework**  
**Surfaces**  
**Alignments**  
**Profiles**

**Corridors**  
**Grading**  
**Pipe Network**  
**Project Explorer**  
**Plan Production**

- All classes are delivered live online via Microsoft Teams, 7:00 am–2:30 pm PT / 10:00 am–5:30 pm ET.
- Students must have their own Autodesk software installed and working before the first day of class. We cannot troubleshoot software installation during class time.
- All classes include access to an e-book training manual.
- All students who complete the course are eligible to receive an Autodesk Certificate of Completion.
- Course outcomes, pre-requisites, and topics may change based upon software version.