

# Autodesk® Civil 3D 2024 Level I Essentials

## ▶ Length

3 Days

## ▶ Cost

\$1,200 per person  
(Dedicated group rates available)

## ▶ Level

Beginner / Intermediate

## ▶ Prerequisites

AutoCAD® 2021-2024 Level I (or equivalent)

...or...

6-12 months continuous AutoCAD® 2021-2024 experience

## ▶ Who Can Benefit From This Class

Civil design professionals who want to learn how to automate their engineering projects and processes using the intelligence of Civil 3D

## ▶ Hours

9:00am - 4:30pm EST  
with an hour lunch break

## ▶ Additional Information

This class comes with a 100% Satisfaction Guarantee, provides AIA/CES Continuing Education Credits (CEUs), and each student receives a certificate of accomplishment. Please see our website for more information.

## ▶ CADD Community

As a benefit of training with us, you'll get 1 year of access to this class - PLUS all Autodesk classes - on-demand through the CADD Community. The training content & resources are proven to help refresh knowledge throughout the year.

## DESCRIPTION

This class introduces the model-based design technology in Autodesk® Civil 3D® and provides the core for its application in civil engineering projects of any type. Students will examine the Autodesk Civil 3D interface and environment, the development of civil project data, and the application of settings and styles. A working knowledge of AutoCAD and standard Civil Engineering concepts is necessary.

## CONTENT

### Concepts and Environment

User Interface  
Intelligent Objects

### Project Management

File Formats  
Drawing Creation  
Data Sharing

### Establishing Existing Conditions

Surface Creation from Existing Data  
Adding Boundaries to Surfaces

### Introduction to Road Design

Alignment Creation, Editing, and Annotating  
Surface and Design Profile Creation  
Typical Section Design  
Corridor Generation and Targets  
Corridor Transitions  
Corridor Surfaces

### Introduction to Utility Layout

Gravity Network Creation  
Display and Annotation of Gravity Parts in Profile  
Pressure Network Creation  
Display and Editing of Pressure Parts in Profile

### Proposed Ground

Feature Line and Breakline Creation  
Grading Objects, Targets and Interaction  
Combining Design Surfaces  
Surface Annotation  
Earthwork Volumes

### Document Generation

Cross Section Sampling and View Creation  
Plan and Profile Sheet Creation

## LEARNING PATH

**Prerequisites**  
AutoCAD and LT  
Level I



**This Class**



**Future Training**  
Civil 3D Level I: Survey  
Map 3D Level I: Essentials