



This hands-on foundation-level course covers the essentials of AutoCAD® Civil 3D.® Students learn how to work with point data in AutoCAD Civil 3D, how to create and analyze surfaces, how to develop a site, how to model roads, corridors and pipe networks, how to work with survey data and how to import and export data. Hands-on exercises throughout the course explore creation of 2D and 3D production drawings.

**Prerequisites:** Before starting this course, students should have working knowledge of AutoCAD® and understand basic engineering concepts. It is also recommended that the student have a working knowledge of Microsoft® Windows® Operating Systems and Microsoft® Office.

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Authorized Training Center

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### Objectives

The primary objective of the course is to familiarize students with the concepts and application of the essential functions of AutoCAD Civil 3D.

#### After completing this course, students should be able to:

Import and work with survey data.

Create points, change point styles, and manage points in groups.

Create, edit, and analyze surfaces, and view surfaces in 3D.

Create a site, create and edit alignments, and create profiles and cross-sections.

Create assemblies, corridors, pipe networks and cross-sections, and calculate corridor volumes.

Work with grading objects.

Import AutoCAD Land Desktop data and export AutoCAD Civil 3D data.

### Who Should Attend

This course is designed to teach new users the essential elements of AutoCAD Civil 3D for creating, analyzing and managing civil engineering drawings and projects.

### Course Outline

#### Day 1

#### The AutoCAD Civil 3D Interface

Product Overview

#### Survey Level 1

Civil 3D Survey Toolspace

Civil 3D Points

Civil 3D Survey Figures

#### Surfaces Level 1

Civil 3D Surface Overview

Civil 3D Surface Editing

Civil 3D Surface Labels and Analysis

#### Day 2

#### Alignments Level 1

Civil 3D Alignments

#### Profiles Level 1

Civil 3D Profiles

#### Corridors Level 1

Civil 3D Assemblies

Civil 3D Corridors

### Day 3

Grading Level 1

Grading Overview

#### Pipe Networks Level 1

Pipe Networks Overview

Pipe Networks Editing and Annotation

#### Quantity Take Off/ Sections Level 1

Sections

Quantity Take Off

#### Data Sharing Level 1

Data Sharing Overview

Data Shortcuts

Vault

#### Additional Sections (Not Covered in 3-day class)

#### Parcels Level 1

#### Plan Production Level 1