

# AutoCAD Civil 3D Essentials

## Description

4 Day Class\*

This course is designed to introduce new users to the essential elements of AutoCAD Civil 3D for creating, analyzing, and managing civil engineering drawings and projects. Familiarity with AutoDesk Land Desktop will be helpful. This description is a guideline. Course topics and duration may be modified based upon the knowledge and background of the course participants.

## Session Topics

### **1. The AutoCAD Civil 3D Environment**

- Creating and Modifying Workspaces
- CUI (Custom User Interface)
- Executing Commands through the Ribbon
- Prospector Tab Overview
- Settings Tab Overview

### **2. Working with Point Data**

- Creating and Editing Points
- Importing Point Files
- Changing Point and Label Styles
- Managing Points
- Point Groups

### **3. Surface Modeling**

- Creating a Surface
- Modifying Surfaces
- Creating and Managing Surface Styles
- Surface Analysis and Labeling
- Volume Calculations

### **4. Sites and Parcels**

- Creating and Editing Parcels
- Labeling Parcels
- Generating Parcel Tables & Reports

### **5. Alignments**

- Creating and Editing Alignments
- Labeling Alignments and Creating Tables

### **6. Profiles and Profile Views**

- Creating Surface Profiles
- Managing Profile View Styles
- Layout Profiles
- Editing Profile Geometry
- Labeling and Band Sets

### **7. Pipe Networks**

- Creating a Pipe Network
- Modifying and Editing a Pipe Network
- Drawing Networks in Profile Views
- Labeling in Plan and Profile

### **8. Assemblies and Corridors**

- Creating Assemblies
- Creating Corridor Models
- Creating Corridor Surfaces

### **9. Cross Sections**

- Creating Sample Line Groups
- Section Views and Labels

### **10. Grading**

- Feature Lines
- Grading Groups and Criteria
- Final Grading Surfaces, Volumes and Labeling

### **11. Managing Data**

- Data Shortcuts and References
- LandXML

\*Note: The suggested course duration is a guideline. Course topics and duration may be modified by the instructor based upon the knowledge and skill level of the course participants.

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