

## Course Outline

# AutoCAD Civil 3D Essentials

### AutoCAD Civil 3D Environment

- Working with workspaces
- Examining Toolspace
- Creating Objects, Object Styles, and Label Styles
- Creating Drawing Templates

### Points

- Import and Create Points
- Working with Point Groups
- Managing Points
- Working with Points and Label Styles

### Surfaces

- Create a Surface
- Modify the Surface Properties
- Editing a Surface
- Working with Surface Analysis
- Working with Surface Labels
- Working with Land XML files to share Data
- Working with Volumes Dashboard

### Parcel Creation

- Working with Parcels
- Edit and Renumber Parcels
- Label Parcels and Create Table
- Working with Reports

### Horizontal Alignments

- Create an Alignment
- Edit Alignments
- Label Alignments

### Existing and Design Profiles

- Create a Profile Using an Existing Terrain Surface
- Create a Design Profile Using Layout Tools
- Edit Profile Geometry
- Use Labels and Label Styles for Profiles and Profile Views

### Assemblies and Corridors

- Working with Assemblies
- Create a Simple Corridor Model
- Working with Corridor Surfaces

### Sections and Quantities

- Working with Sample Lines
- Working with Section Views
- Computing Materials
- Creating Quantity Reports and Tables

### Grading

- Create and Edit Feature Lines
- Working with Grading Criteria Sets
- Creating a Grading Surface and Calculate Volumes
- Creating a Composed Surface

### Gravity and Pressure Networks

- Working with Rules
- Layout Gravity and Pressure Networks
- Draw parts in Profile View
- Label Networks in Plan and Profile

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