

Civil 3D Essentials Bootcamp

This instructor-led bootcamp provides a focused introduction to Autodesk Civil 3D, emphasizing core site design techniques, existing conditions modeling, and production-ready documentation workflows. Participants learn how to create and manage civil design data, develop roadway and site models, and produce annotated deliverables through hands-on exercises aligned with real-world use cases.

Learning Objectives:

- Navigate the Civil 3D interface and manage project data
- Create and manage points, point groups, and surfaces
- Develop alignments and profiles using core design tools
- Apply corridor modeling workflows for roadway and site design
- Utilize grading, pipe network, and plan production tools
- Produce annotated sheets and documentation deliverables

Course Length: 12 Hours

Day 1: Foundations and Existing Conditions

- 1.1 Civil 3D interface and Toolspace navigation
- 1.2 Points, point groups, and data import workflows
- 1.3 Existing ground surface creation and analysis

Day 2: Design Modeling

- 2.1 Alignments and horizontal design workflows
- 2.2 Profiles and vertical design workflows
- 2.3 Assemblies and corridor modeling fundamentals
- 2.4 Introductory grading workflows

Day 3: Documentation and Production

- 3.1 Grading tools and volume calculations
- 3.2 Pipe networks and basic annotation
- 3.3 Plan production tools and sheet creation
- 3.4 Output and documentation workflows