Autodesk Civil 3D Fundamentals Training Course

Course Overview

Course Length: 16-Hours

- 16-Hours - 8 x 2-hour training sessions
- Remote training over MS Teams
- Sessions are recorded and download links for each session are provide for future use
- Training for up to 1-3 People
- Sessions can start within 7 days upon ordering
- Flexible sessions (i.e. consecutive or Monday, Wednesday, Friday, etc.)
- Courses are private and topics can be customised to suit
- Includes Certificate of Completion

This training course is designed for civil engineering professionals seeking to use the interactive and dynamic design capabilities of Autodesk Civil 3D. Civil 3D allows for the rapid development of alternatives via its model-based design tools. You will work with points, create and analyse surfaces, model road corridors, perform grading and volume calculation tasks, lay out pipe networks, and create sheet sets for plotting.

Topics Covered

• Learn the Autodesk Civil 3D user interface.
• Create points and point groups and work with survey figures.
• Create, edit, view, and analyse surfaces.
• Create and edit alignments.
• Create sites, profiles, and cross-sections.
• Create assemblies, corridors, and intersections.
• Create grading solutions.
• Create gravity-fed and pressure pipe networks.
• Use plan production tools to create plan and profile sheets.

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Chapter 1: The Autodesk Civil 3D Interface

- 1.1 Product Overview
- 1.2 Autodesk Civil 3D Workspaces
- 1.3 Autodesk Civil 3D User Interface
- 1.4 Autodesk Civil 3D Toolspace
- 1.5 Autodesk Civil 3D Panorama

Chapter 2: Survey, Points, and Linework

- 2.1 Survey Workflow Overview
- 2.2 Survey Figures

- 2.3 Points Overview
- 2.4 Point Settings
- 2.5 Creating Points
- 2.6 Reviewing and Editing Points
- 2.7 Point Reports
- 2.8 Importing Survey Data
- 2.9 Point Groups
- 2.10 Lines and Curves
- 2.10 Lines and Curves

Chapter 3: Surfaces

- 3.1 Surface Process
- 3.2 Surface Properties
- 3.3 Other Surface Data
- 3.4 Breaklines and Boundaries
- 3.5 Surface Editing
- 3.6 Surface Analysis Tools
- 3.7 Surface Labels
- 3.8 Surface Analysis Display

Chapter 4: Alignments

- 4.1 Roadway Design Overview
- 4.2 Autodesk Civil 3D Sites
- 4.3 Introduction to Alignments
- 4.4 Alignments Layout Tools
- 4.5 Alignment Properties
- 4.6 Labels and Tables

Chapter 5: Profiles

- 5.1 Profiles Overview
- 5.2 Create a Profile View Style
- 5.3 Create Profiles from Surface
- 5.4 Create Profile View Wizard
- 5.5 Finished Ground Profiles
- 5.6 Create and Edit Profiles

Chapter 6: Corridors

- 6.1 Assembly Overview
- 6.2 Creating a Corridor
- 6.3 Corridor Properties
- 6.4 Designing Intersections
- 6.5 Corridor Surfaces
- 6.6 Sample Line Groups
- 6.7 Section Volume Calculations

Chapter 7: Grading

- 7.1 Grading Overview
- 7.2 Feature Lines
- 7.3 Grading Tools
- 7.4 Modifying Autodesk Civil 3D Grading

Chapter 8: Pipe Networks

- 8.1 Pipes Overview
- 8.2 Pipes Configuration
- 8.3 Creating Networks from Objects
- 8.4 The Network Layout Toolbar
- 8.5 Network Editing
- 8.6 Annotating Pipe Networks
- 8.7 Pressure Pipe Networks

Chapter 9: Project Explorer

- 9.1 Introduction to Project Explorer
- 9.2 Project Explorer User Interface
- 9.3 Civil 3D Object Management
- 9.4 Reports and Object Sets

Chapter 10: Plan Production

- 10.1 Final Design
- 10.2 Plan Production Tools
- 10.3 Plan Production Objects
- 10.4 Plan Production Object Edits
- 10.5 Creating Sheets
- 10.6 Section Views