

# Autodesk Civil 3D Advanced 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 Autodesk Civil 3D training course is intended for civil engineering professionals seeking to further explore Civil 3D's interactive, dynamic design functionality. It builds on topics covered in Autodesk Civil 3D: Essentials and includes more advanced techniques to enhance your proficiency of the software. The content covers configuring the software, Civil 3D's styles and settings, alternative methods to create surfaces, and creating parcels. It also addresses advanced corridor and pipe network design. Additionally, it includes customizing sheet set properties, performing quantity takeoffs, and visualisation.

## Topics Covered

- Create a Civil 3D template drawing.
- Create and manage styles and label styles.
- Create data shortcuts.
- Create and edit parcels and print parcel reports.
- Create, edit, view, and analyze surfaces.
- Create assemblies, corridors, and roundabouts.
- Add appurtenances to pressure pipe networks.
- Customize sheet set properties.
- Perform quantity takeoff and volume calculations.

## Training Course Guide Contents

### Chapter 1: Autodesk Civil 3D Styles and Settings

- 1.1 Autodesk Civil 3D Templates and Settings
- 1.2 Styles
- 1.3 Description Key Sets
- 1.4 Figure Styles
- 1.5 Templates
- 1.6 Managing Styles
- 1.7 Online Map Service

## **Chapter 2: Project Management**

- 2.1 Autodesk Civil 3D Projects
- 2.2 Sharing Data
- 2.3 Using Data Shortcuts for Project Management

## **Chapter 3: Parcels**

- 3.1 Introduction to Parcels
- 3.2 Creating & Editing Parcels by Layout Overview
- 3.3 Creating and Editing Parcels
- 3.4 Renumbering Parcels
- 3.5 Parcel Reports
- 3.6 Parcel Labels
- 3.7 Parcel Tables

## **Chapter 4: Surfaces – Beyond the Basics**

- 4.1 Contour Data
- 4.2 Survey Figures as Breaklines
- 4.3 Surface Editing
- 4.4 Model Viewer
- 4.5 Feature Lines
- 4.6 Create Design Surfaces from Feature Lines
- 4.7 Surface Volume Calculations
- 4.8 Create a Surface from GIS Data
- 4.9 Point Cloud Surface Extraction
- 4.10 Extract Objects from a TIN Surface

## **Chapter 5: Corridors – Beyond the Basics**

- 5.1 Subassembly Composer
- 5.2 Modifying Assemblies
- 5.3 Managing Assemblies
- 5.4 Superimposing Profiles
- 5.5 Exporting Corridors
- 5.6 Roundabouts
- 5.7 Corridor Section Review and Edit
- 5.8 Mass Haul Calculations
- 5.9 Code Set Styles

## **Chapter 6: Pipes – Beyond the Basics**

- 6.1 Pipes Configuration
- 6.2 Pressure Pipes

## **Chapter 7: Sheet Set Manager**

- 7.1 Sheet Sets

## **Chapter 8: Quantity Takeoff and Visualisation**

- 8.1 Civil 3D Multi-view Blocks
- 8.2 Pay Items
- 8.3 Visualisation

- 8.4 3D Navigation Tools
- 8.5 Managing Views in 3D
- 8.6 Corridor Visualisation
- 8.7 Model Viewer