

Autodesk Civil 3D Essentials Training Course

Course Overview

Course Length: 8-Hours

- 8-Hours – (4 x 2-hours) Training
- Remote training over MS Teams
- Sessions are recorded and download links are provided for future reference
- Training for up to 1-3 people
- Sessions can start within 7 days upon ordering
- Courses are private and topics can be customised to suit
- Includes certificate of completion

This Civil 3D Essentials course is designed for civil engineering and surveying professionals who need a practical introduction to Autodesk Civil 3D in a condensed 8-hour format. Through hands-on exercises, participants will learn the core workflows needed to organise project data, work with survey points, build and analyse surfaces, create alignments and profiles, and develop basic corridor, grading, and pipe network models for design documentation. The course focuses on the essential tools and concepts needed to become productive quickly in Civil 3D.

Topics Covered

- Navigating the Autodesk Civil 3D user interface and workspace
- Creating and managing points, point groups, and survey data
- Building, editing, and analysing surfaces
- Creating and editing alignments
- Generating profiles and profile views
- Understanding assemblies, corridors, and intersections
- Applying basic grading workflows and volume calculations
- Creating introductory gravity and pressure pipe networks
- Producing plan, profile, and design documentation outputs

Prerequisites

Participants attending this Autodesk Civil 3D Essentials Training course should have experience using AutoCAD or AutoCAD-based products and a sound understanding of civil engineering or surveying terminology.

Access to Autodesk Civil 3D software and a stable internet connection is required for participation in online training sessions. Prior exposure to civil drafting workflows will help participants get the most from the course.

Training Guide Contents

Chapter 1: Civil 3D Interface and Project Setup

- Civil 3D workspace, Toolspace, and Panorama
- Project organisation and drawing setup
- Essential settings, styles, and workflow basics

Chapter 2: Survey Data, Points, and Linework

- Creating points and point groups
- Importing and reviewing survey data
- Working with survey figures, lines, and curves

Chapter 3: Surfaces, Alignments, and Profiles

- Creating, editing, and analysing surfaces
- Building alignments and applying labels
- Creating existing ground and design profiles

Chapter 4: Corridors, Grading, and Pipe Networks

- Understanding assemblies and basic corridor creation
- Applying introductory grading and volume workflows
- Creating basic gravity and pressure pipe networks

Chapter 5: Documentation and Output

- Plan, profile, and sheet production basics
- Labels, annotations, and presentation outputs
- Best practices for efficient Civil 3D model-based documentation