

## | AUTODESK

# AutoCAD Civil 3D, Foundation Skills

This course will provide an overview of the dynamic modelling concepts implemented in AutoCAD Civil 3D software, and will aim to provide users with a basic understanding of style-based infrastructure design. The course will guide delegates on the use of design tools for surface modelling and editing, horizontal and vertical road alignments, quantity take-off and design documentation.

This course is designed to be taken in conjunction with one or more of the other one-day Civil Design courses.

*"Course was well organised with a clear structure of developing a project as being able to follow the process throughout. As I have not used Civil 3D before it was a very beneficial course to be on and I have learnt many skills that I will hopefully use throughout my career." - Sophie H*

## Prerequisites

Experience with AutoCAD or AutoCAD-based products and a sound understanding and knowledge of civil engineering terminology

## Objectives

### DAY ONE

#### The AutoCAD Civil 3D Interface

- Product Overview
- AutoCAD Civil 3D Workspaces
- AutoCAD Civil 3D User Interface
- AutoCAD Civil 3D Toolspace
- AutoCAD Civil 3D Panorama
- AutoCAD Civil 3D Templates, Settings, and Styles

#### Surfaces

- Surface Process
- Surface Properties
- Contour Data
- Other Surface Data
- Breaklines and Boundaries
- Surface Editing
- Adjusting Surfaces through Surface Properties
- Surface Analysis Tools
- Surface Labels
- Surface Analysis Display

## Alignments

- Roadway Design Overview
- Introduction to Alignments
- Alignments Layout Tools
- Alignment Properties

## Profiles

- Profiles Overview
- Create a Profile View Style
- Create Profiles from Surface
- Create Profile View Wizard
- Finished Ground Profiles
- Create and Edit Profiles

## DAY TWO

### Corridors

- Assembly Overview
- Creating a Corridor
- Corridor Properties
- Corridor Surfaces
- Corridor Section Review and Edit
- Corridor Visualisation

### Grading

- AutoCAD Civil 3D Sites
- Grading Overview
- Feature Lines
- Grading Tools
- Modifying AutoCAD Civil 3D Grading

### Cut and Fill Volumes

- Levelling the Cut and Fill Volumes Using Grading
- Whole Site Cut and Fill Volumes
- Using Cut and Fill Areas

### Pipe Networks

- Pipes Overview
- Pipes Configuration
- Creating Networks from Objects
- The Network Layout Toolbar
- Network Editing
- Annotating Pipe Networks

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**DURATION**

2 Days

**COURSE CODE**

C3D-FS

**COURSE COST**Price on Application

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**Get in touch**

Please contact us on [01992 807 444](tel:01992807444) or [via email](#) where you can speak to one of our training specialists who can answer any questions you may have and/or make a reservation.