

# Civil 3D Fundamentals

## Course Description

This course is designed for Civil Engineers and Surveyors who want to take advantage of the interactive, dynamic design functionality of AutoCAD Civil 3D.

AutoCAD Civil 3D software permits the rapid development of alternatives through its model-based design tools.

The course will teach you the techniques that enable you to organise project data, work with points, create and analyse surfaces, model road corridors, create parcel layouts, perform grading and volume calculation tasks, and layout pipe networks.



## Prerequisites

Experience with AutoCAD or AutoCAD-based products (such as Autodesk® Land Desktop) and a sound understanding and knowledge of civil engineering terminology, plus an understanding of MS-Windows.

BIM Modeller



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## Topics Include

- ❑ AutoCAD Civil 3D user interface
- ❑ Create and edit parcels and print parcel reports
- ❑ Create Points and Point Groups
- ❑ Work with survey figures
- ❑ Create, edit, view, and analyse surfaces
- ❑ Create and edit Alignments
- ❑ Create data shortcuts
- ❑ Create sites, profiles and cross-sections
- ❑ Create assemblies, corridors, and intersections
- ❑ Create simple grading solutions
- ❑ Create gravity fed and pressure pipe networks
- ❑ Perform quantity takeoff and volume calculations
- ❑ Utilise Plan productions to create plan and profiles sheets

Course Duration: 2 + 2 Days

Next Step: A Bespoke Course