

Advanced Road Design Essentials

Duration:

2 Days

Course Objectives:

Participants should be able to use Civil 3D/ARD to create terrain models, alignments both horizontal and vertical, cross sections and grading tools.

Prerequisites:

No prior knowledge of Civil 3D is required however, a knowledge of AutoCAD would be beneficial but is not essential.



Advanced Road Design Essentials Course Outline:

Creating Roads

Creating /Managing Cross Section Templates

Applying Sub grade Templates / Introduction to the Sub grade editor

Vertical Design - Using the Vertical Grading Editor

Varying Cross Sections by adding design data

Super elevation - Application and Editing
Automatic Super elevation

Cross Section Plotting

Long Section Plotting

Setout

String Design - Horizontal and Vertical control in your cross sections - Introduction

Varying your Cross Sections via the Variation form

- Inserting Extra Labels
- Deleting Labels
- Varying Offset/Slopes
- Widening to an Alignment

Intersections Design

- Side road Match-In
- Kerb Return Design and Automation
- Cul-De-Sac Design

Creating a 3D Surface Model

