



AutoCAD Civil 3D 2012 Wind Farm Earthworks Modelling

Course Duration: 2 days
Award: Autodesk Official Certificate in AutoCAD Civil 3D 2012

Course Description

This intermediate-level course provides a workflow in AutoCAD® Civil 3D® for the design of wind farm infrastructure with emphasis on balancing earthworks volumes. Based on a real wind farm project the course uses a conceptual design and provides a workflow for detailed earthworks modelling for quantities of peat stripping, cut and fill of rock and volume of reusable material for construction.

Objectives

The primary objective of the course is to provide students with the AutoCAD Civil 3D skills and workflows necessary for wind farm infrastructure design and earthworks modelling. After completing this course, students should be able to:

- Create and analyse sub-surface geological strata
- Model access roads and earthworks
- Create criteria-based earthworks to accommodate multiple strata
- Model earthworks for hardstand areas
- Create cross sections
- Calculate volumes of sub-surface geological layers
- Adjust design to balance earthworks
- Present volumes in report and drawing format

Who Should Attend:

The target audience for this class includes experienced Civil Engineers, technicians or draughting personnel who are involved in Wind Farm site development. Experience working with AutoCAD Civil 3D or completion of the AutoCAD Civil 3D Road Design Essentials course is a prerequisite to attending this course.

Course Content:

Surface Modeling

- Create ground model of existing conditions
- Import probed peat and rock depths
- Create model of subsurface geological layers

Access Road & Hardstand Modeling

- Create Civil 3D assemblies to model access roads and drainage
- Create conditional assemblies to model earthworks
- Create assemblies to model hardstands
- Create Civil 3D corridor for access roads

Earthworks Volume Analysis

- Produce cross sections
- Calculate volumes of rock, peat and reusable material from cross sections
- Create volume surfaces
- Modify design to balance earthworks volumes

Presentation of Results

- Produce layout plans to show areas of cut/fill for rock
- Produce cumulative volume reports

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- Quality certification - We are an authorized Autodesk, Bentley & City & Guilds training and exam centre
- Personal Attention ensured - Maximum 8 candidates per class
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