



AutoCAD Civil 3D 2011 for Road Design

About the Course

Course Description

This hands-on, foundation-level course covers the essentials of AutoCAD Civil 3D software as it applies to road design, including how to create and analyze a surface in AutoCAD Civil 3D, model roads and corridors, design junctions, calculate volumes and import and export data.

Designed for

This hands-on, foundation-level course covers the essentials of AutoCAD Civil 3D software as it applies to road design, including how to create and analyze a surface in AutoCAD Civil 3D, model roads and corridors, calculate volumes and import and export data. The target audience for this class includes Civil Engineers, technicians or draughting personnel working with AutoCAD or Civil 3D, and involved in road design projects.

Objectives

The primary objective of the course is to familiarize students with the concepts and application of the essential functions of Autodesk Civil 3D as they apply to road design. Upon completion of the course, the student will be proficient in creating and working with the design process, and be able to:

- Create, edit, analyze and view surfaces
- Export Autodesk Civil 3D data
- Create and edit alignments, profiles, and sections
- Create assemblies and corridors
- Calculate corridor volumes
- Junction design wizard

Requirements

Students should have a working knowledge of AutoCAD 2006 or later and be familiar with Road Design principles.

Course Material

A large part of each course is spent with a set of specially prepared exercises and projects so that those attending gain firm foundations through their own practical experience. Professionally presented course notes are provided and these may be retained for reference afterwards.

Duration

This training program is two days in duration.

Award

Autodesk Official Certificate in AutoCAD Civil 3D 2011 for Road Design.

Course Outline

Surface Modeling

- Creating a Surface from LandXML
- Editing and Analyzing a Surface
- Adding Masks, Borders, and Contour Labels

Road Design

- Creating and Editing Alignments
- Creating and Editing Profiles

Sharing Data

- Exporting Civil 3D Data for setting out
- Calculating Corridor Volumes & Quantities

Junction Design

- Review of Surfaces, Alignments, Profiles
- Settings & prerequisites
- The Junction Design Wizard
- Editing & Widening Junctions

Corridor Modeling

- Creating Assemblies
- Creating & editing a Corridor Model
- Creating and editing Cross-Sections