



MicroStation® 3D Skills

Course Description

This course is for experienced users and explores MicroStation's 3D capability in detail and provides detailed coverage of the most popular concepts and tools in MicroStation's 3D environment, including 3D primitives, surfaces and 3D view controls. The course includes discussions of drawing composition and an introduction to MicroStation rendering, including lighting effects, camera setup and applying materials.

Who Should Attend

MicroStation users seeking to gain proficiency with 3D tools and applications.

Course Objectives

After completing this course, you will be able to:

- Solid understanding of MicroStation's 3D capabilities.
- Ability to navigate and work in a 3D design file.
- Ability to create and edit MicroStation 3D geometry (primitive elements though B-spline surfaces).
- Basic knowledge of MicroStation's rendering capabilities.

Course Outline

3D Basics

- 3D Views and view control
- Visualizing a 3D design
- Working with a 3D coordinate system
- Transferring your 2D skills into 3D

Introduction to Drawing in 3D

- Using AccuDraw in 3D
- Introduction to 3D Drawing Tools
- Create 3D surface models for edge and surface definition
- Hidden line and shaded views

Introduction to SmartSolid

- SmartSolid Construction Tools
- SmartSolid Modification Tools
- SmartSolid Utility Tools

Introduction to Surfaces

- SmartSurface Creation Tools
- SmartSurface Modifying Tools
- SmartSurface Filleting Tools

3D Queries Tool Box

Creating and Using 3D Cells

Creating Drawings from 3D Models

- Exchanging 3D and 2D files

Analysing your Model (optional)

- Analysing your model for mass properties

Creating the Scene

- Rendering
- Lighting
- Material definitions

Animation Functions

- Creating a fly through
- Creating a solar study

A 3D Engineering Project (optional)

- Creating a flat bridge
- Creating a curved bridge
- Modifying the support columns

Prerequisites

You must be able to use the basic features for MicroStation.

MicroStation v8



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Course Length: 3 Days

Course Fee: MasterClass: £675; Private Class: call for rates

To Enrol: **Please Call 0845 301 8122**