

Autodesk Revit Architecture Essentials

Duration : 3 Days

Overview

This course covers the basics of Revit® Architecture, from schematic design through construction documentation. Students are introduced to the concepts of Building Information Modelling and the tools for parametric building design and documentation.

Target Audience

This course is aimed at those who want to get to grips with the primary features of Revit Architecture and wish to learn the fundamentals of Building Information Modelling.

Prerequisites

It is recommended that you have a working knowledge of Microsoft supporting systems. Additionally, it is assumed that the student has past experience working with AutoCAD.

Objectives

The primary objective of this course is to teach students the concepts of Building Information Modelling and introduce the tools for parametric building design and documentation using Revit Architecture. After completing this course, students will be able to:

- Describe the benefits of Building Information Modelling
- Use the fundamental features of Revit Architecture
- Use the parametric 3D design tools to design projects
- Create detailing and drafting views
- Create construction documentation
- Use the presentation tools for presenting models

Course Content

DAY 1

INTRODUCTION TO BIM AND AUTODESK REVIT

Building Information Modelling
Exploring the User Interface
Starting a New Project
Working with Revit Elements and Families
Viewing the Model
Exploring Views – Sections, Elevations & 3D
Controlling Object Visibility

BASIC DRAWING AND MODIFY TOOLS

Using General Drawing Tools
Editing Elements
Working with Basic Modify Tools
Working with Additional Modify tools

STARTING AUTODESK REVIT ARCHITECTURE PROJECTS

Linking AutoCAD Drawings
Linking in Autodesk Revit Models
Setting Up Levels
Creating Gridlines

WORKING WITH VIEWS

Duplicating Views
Adding Callout Views
Setting the View Display
Elevations and Sections

MODELLING WALLS

Creating Wall Types
Modelling Walls
Modifying Walls

WORKING WITH DOORS AND WINDOWS

Inserting Doors and Windows
Loading Doors and Window Types from Library
Creating Additional Door and Window Sizes

WORKING WITH CURTAIN WALLS

Creating Curtain Wall
Adding Curtain Grids
Working with Curtain Wall Panels
Attaching Mullions to Curtain Grids



DAY 2

MODELLING FLOORS

Creating Floors Types
Modelling Floors
Creating Shaft Openings
Creating Sloped Floors

MODELLING CEILINGS

Creating Ceiling Types
Modelling Ceilings
Adding Ceiling Fixtures
Creating Ceiling Sofits

MODELLING ROOFS

Creating Roofs Types
Modelling Roofs
Creating Roofs by Footprint
Reference Planes & Work Planes
Creating Roofs by Extrusion
Cleaning Up Wall and Roof Intersections

VERTICAL CIRCULATION

Creating Component Stairs
Modifying Component Stairs
Working with Railings
Sketching Customer Stairs
Creating Ramps

BUILDING INTERIORS

Adding Rooms
Adding Room Separators
Room Tags
Edit Colour Schemes

DAY 3

ANNOTATING CONSTRUCTION DOCUMENTS

Working with Dimensions
Working with Text
Adding Details Lines and Symbols
Creating Legends

ADDING TAGS AND SCHEDULES

Adding Tags
Working With Schedules

CREATING DETAILS

Setting Up Detail Views
Adding Details Components
Annotating Details
Importing Typical DWG Details.

CREATING CONSTRUCTION DOCUMENTS

Setting Up Sheets
Placing and Modifying View on Sheets
Printing Sheets
Exporting sheets to DWG format.

Training Options

- Public scheduled courses at one of our training venues
- Private courses delivered at client's premises throughout the UK, at our training venues or a convenient third-party location
- Bespoke customised courses written to your specific needs, delivered at client's premises throughout the UK, at our training venues or a convenient third-party location
- For further information please contact us on 0191 377 8377

What's Included

- 1 delegate per computer
- Lunch and refreshments when training is delivered at our training venue
- Comprehensive course manual and exercises