



Revit Architecture Professional



Description:	<p>The aim of the Autodesk Revit Architecture Professional course is to teach delegates the principles of Building Information Modelling through producing complete 3D architectural project models and the skills required for parametric building design and documentation.</p> <p>The training concentrates on the necessary tools that the delegates will need to understand and use effectively to work in a BIM environment with Revit Architecture software from schematic design right through to construction documentation.</p>
Learning Materials Provided:	<p>This course is delivered in a blended manner, combining classroom delivery and online learning. The following is provided to every candidate:</p> <p>Autodesk Official Training Manual - Revit Architecture 2016 Essentials Book Paradigm E-Learning Modules – Video Tutorial with step-by-step handout Online Project Exercises Weekly Knowledge Check/Quiz <i>Included - Revit Architecture Professional Exam !</i></p> <p>The course will also help students prepare for the Autodesk Revit Architecture Professional Certification Exam (takes place on final afternoon)</p>
Length:	<p>9:30 - 5.00 1 Day a Week for 5 Weeks</p> <p>Additional 3 Days for E-Learning Content (recommended time)</p>
Prerequisites	<p>No previous CAD experience is required. Users with an Architecture or Engineering qualification or equivalent experience is recommended.</p>
Course Content:	<ul style="list-style-type: none">• Introducing Revit as a BIM Tool Level 2 BIM & Revit Impact of PAS 1192 on Revit• UI Tour, Project Navigation and View Creation Introducing the menu and screen layout Establishing a Project<ul style="list-style-type: none">• UK Content Templates & Libraries• Project Units• Building Position & Orientation• Notion of Model SeparationThe Project Browser Organisation – Know your Views & Sheets Interrogating the model to extract views<ul style="list-style-type: none">• Plans• Sections and elevations• Callouts and drafting views• 3D isometrics, perspectivesPlacement and Properties of Grids and Levels

- **Element Selection and Manipulation**
Object Selection Methods
Nodes and Snaps
Revit Hierarchy – System v Component v InPlace Families
Element properties – Type v Instance
- **Visibility & Graphic Control**
Project-Wide Control Settings
View Specific Overrides
Element Specific Overrides
View Templates

DESIGN DEVELOPMENT PHASE - SYSTEM FAMILY CREATION

- **Walls**
Drawing Walls
Modifying Walls – Temporary Dims, Controls, Joins
Editing Tools – Trim, Split, Align, Mirror etc.
Editing Wall Shapes
- **Basic Curtain Walls**
Fundamental principles and sub-element identification
Working with Curtain Wall Panels
- **Floors, Roofs and Ceilings**
Sketching rules
Relating slabs to walls and supporting framework
Controlling slopes
Roof Design – Footprint or Extruded
- **System Family Editing**
Principles Model Development Methodology
Material Layer Function & Wrapping
Sharing System Families
Edit a Wall System Family
- **Stairs Ramps and Railings**
Stair by component and by sketch
Hosted and standalone railings

DESIGN DEVELOPMENT PHASE Cont'd - COMPONENT FAMILYS

- **Window, Door and Component Use**
Family terminology
Component placement
Element hosting
The Family Editor – The Basics

COORDINATION & COLLABORATION

- **Site Design**
Creating Toposurfaces
Site Components – Planting etc.
Building Pads
Site Model & Building Model Link – The Shared Position

- **Worksharing**
 - Concept of Multiple Users – One Model
 - Using Worksets & permissions
 - Detach Model from Central File

- **Linking Models**
 - Linking Revit and CAD Files
 - Monitoring and Coordinating Linked Project

- **Phasing**
 - 4D BIM
 - Introduction to Phasing

- **Massing Tools and the Building Maker**
 - Introduction to In-place massing
 - Mass Floor Areas

- **Room Data and Colour-Fill**
 - Room definition and boundary elements
 - Tagging and meta-data
 - Room area and volume
 - Colour schemes and legends

- **2D Drafting and Annotation**
 - Introducing annotation tools and component categories
 - Detail component libraries
 - Repeating details
 - Lines and arcs
 - Dimensions, text, Tags and keynotes

- **Schedules and Legends**
 - Generation of tabular interrogations of the model
 - Schedule Filtering, Grouping, Calcs
 - Legends - A Symbolic Table

- **Sheet Compilation and Publication**
 - Creating and populating sheets
 - Titleblocks & Parameters
 - Printing and Publishing

- **Autodesk Certified Exam**
 - Autodesk Revit Architecture Professional Exam