

Autodesk Revit Architecture Training – Course Outlines

Duration – 8 Days (5 classroom + 3 online)

Who should attend?

This course is designed for new Revit Architecture users who need to become familiar with all the main tools within Architecture Software.

Description

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.

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.

Learning Materials Provided:

This course is delivered in a blended manner, combining classroom delivery and online learning. The following is provided to every candidate:

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
Included - Revit Architecture Professional Exam!

The course will also help students prepare for the Autodesk Revit Architecture Professional Certification Exam (takes place on final afternoon)

Course Content:

- 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
- UK Content Templates & Libraries
- Project Units
- Building Position & Orientation
- Notion of Model Separation

The Project Browser Organisation – Know your Views & Sheets

Interrogating the model to extract views

- Plans
- Sections and elevations
- Callouts and drafting views
- 3D isometrics, perspectives

Placement 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

Course Requirements:

Microsoft® Windows®7, Vista® or XP working knowledge. Drafting and design experience is a plus.

Additional Info:

Candidates receive comprehensive courseware and upon completion an industry - recognised Autodesk training certificate.

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 & 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 & RAILINGS

- Stair by component and by sketch
- Hosted and standalone railings

DESIGN DEVELOPMENT PHASE Cont'd - COMPONENT FAMILYS

WINDOW, DOOR & 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 & THE BUILDING MAKER

- Introduction to In-place massing
- Mass Floor Areas

ROOM DATA & COLOUR-FILL

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

2D DRAFTING & ANNOTATION

- Introducing annotation tools and component categories
- Detail component libraries
- Repeating details
- Lines and arcs
- Dimensions, text, Tags and keynotes

SCHEDULES & LEGENDS

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

SHEET COMPILATION & PUBLICATION

- Creating and populating sheets
- Titleblocks & Parameters
- Printing and Publishing

AUTODESK CERTIFIED EXAM

Autodesk Revit Architecture Professional Exam



Value Added Services
Authorized Certification
Center



Value Added Services
Authorized Training Center



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