

Autodesk Professional in Revit for Architectural Design

Target Audience

The Autodesk Certified Professional in Revit for Architectural Design is tailored for architects, designers, and BIM professionals who utilize Revit to create, document, and visualize architectural designs. It is also ideal for educators, students, and recent graduates aiming to validate their expertise in Revit and enhance their career prospects. This certification is designed for individuals seeking to showcase their advanced skills in building information modeling (BIM) and gain recognition in the architecture and design industry.

Course Objective

To provide participants with advanced knowledge and hands-on experience in using Autodesk Revit for architectural design, documentation, and visualization. The course aims to develop proficiency in building information modeling (BIM) workflows, enabling participants to efficiently create, analyze, and present architectural projects while preparing them for the Autodesk Certified Professional certification in Revit for Architectural Design.

Course Outcome

- Mastery of advanced Revit tools for architectural design, documentation, and visualization.
- Proficiency in building information modeling (BIM) workflows for efficient project management.
- Ability to create detailed and accurate architectural models, including plans, elevations, and 3D views.
- Skills to collaborate effectively using Revit's work-sharing and coordination tools.
- Preparedness to achieve Autodesk Certified Professional certification in Revit for Architectural Design.
- Enhanced career opportunities and professional recognition in architecture and BIM-focused roles.



Course Outline: The course comprises **40-hours** of theory and labs and is divided into **5** different chapters. Each chapter will be followed by hands-on lab exercises to reinforce learning and gauge understanding of the topics covered.

Chapter 1. Modeling for Architectural Design

- Wall Options
- Attaching Walls
- Stacked Walls
- Placing a Cut in a Wall
- Curtain Walls
- Embedded Curtain Walls
- Creating a Roof by Footprint
- Creating a Roof by Extrusion
- Add Split Lines to a Roof
- Add Spot Elevation and Slope Annotations
- Creating Stairs by Sketch
- Creating Stairs by Component
- Stair Landings
- Changing a Railing Profile
- Modify a Railing
- Modifying a Floor Perimeter
- Modifying Floor Properties
- Place a Vertical Opening
- Placing Columns
- Place Slanted Columns
- Columns and Materials
- Rooms
- Room Separators
- Defining an Element as Room Bounding
- Room Styles
- Volume Calculations of Rooms
- Managing Room Boundaries in Linked Files
- Identifying a Family
- Create a Casework Family
- Create a New Family Type
- Using Symbolic Lines in Families



Create a Toposolid Using Points
Create a Toposolid Using a CSV File
Create a Toposolid Using a DWG File
Add a Subdivision to a Toposolid
Model Groups

Chapter 2. Documentation for Architectural Design

Create a View Template
Apply a View Template to a Sheet
Create and Apply View Filters
Reveal Hidden Elements
Graphic Overrides of Linked Files
Object Styles
Change the View Scale
Change the Detail Level of a View
Segmented Views
Rotate a View
Duplicating Views
View Range
Create Call-out View
Create a Scope Box
Use a Scope Box to Crop Multiple Views
Create a Text Style and Leader
Configure Keynote Settings
Insert Keynotes
Create Dimensions
Modify Dimensions
Convert Temporary Dimensions to Permanent Dimensions
Multi-Segmented Dimensions
Dimension Style with Alternate Units
Using a Matchline
Modifying a Matchline Appearance
Create a Tag
Revision Control
Modify a Revision Schedule
Create a Legend
Import a Legend
Create a Keynote Legend
Color Schemes
Color Scheme by Department



Create a Drafting View
Create a Detail Component Family
Place a Repeating Detail Component Family
Create a Detail Group

Chapter 3. Collaboration and Coordination for Architectural Design

Worksets
Controlling Workset Visibility
Worksets in a Linked Model
Compacting a Central File
Understanding Shared Coordinates
Placing a Spot Coordinate
Understanding Location
Linking Files using Shared Coordinates
Defining a Shared Site
Using Project North
Using True North vs. Project North
Configure Link Display Settings
Import DWG
Import PDF
Import Image
Linked vs Import
Export to DWG
Review Warnings
Audit a File
Purge a File
Interference Checking
Explode a CAD file
Phases
Design Options
Design Options – Practice Question
Monitoring a Linked File

Chapter 4. Project Standards and Setup for Architectural Design

Set Save Reminders
Set File Locations
Configure Tabs
Defining Keyboard Shortcut
Control Element Selections



- Project Parameters
- Configure Object Styles
- Transfer Project Standards
- Exercise
- Perform Effective Searches
- Configure Print Sets
- Create Library Files
- Export a Schedule

Chapter 5. Information Analysis for Architectural Design

- Including Linked Elements in a Schedule
- Apply a Phase to a Schedule
- Apply a Design Option to a Schedule
- Using Combined Parameters in a Schedule
- Create a Key Schedule
- Create a Schedule using Formulas
- Create a Note Block
- Area Scheme
- Create a Solar Study
- Export a Solar Study

