

Autodesk Certified 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 **56-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