

Revit Architecture Essentials

Description

The Revit Architecture Essentials course is designed to teach you the Revit functionality as you would work with it in the design process. Begin by learning about the user interface and the Revit commands for design development, followed by those available for construction documentation.

The objective of the Revit Architecture Essentials training is to enable students to create full 3D architectural project models and set them up in working drawings. This training focuses on basic tools that the majority of users need to work with Revit Architecture.

Class Information

The primary objective of this course is to teach students the concepts of Building Information Modeling and introduce the tools for parametric building design and documentation using Revit Architecture.

After completing this course, students will be able to:

- Understand the purpose of Building Information Management (BIM) and how it is applied in Revit
- Using the Revit Architecture workspace and interface
- Working with the basic drawing and editing tools in Revit
- Creating Levels and Grids as datum elements for the model
- Creating a 3D building model with walls, curtain walls, windows, and doors
- Adding floors and roofs to the building model
- Creating standard and custom stairs
- Detailing Reflected Ceiling Plans with ceilings and lighting fixtures
- Adding component features, such as furniture and equipment
- Setting up sheets for plotting with text, dimensions, details, tags, and schedules
- Creating details

Who Should Attend

This course is designed for new users of Revit Architecture.

Suggested Duration	4 days
Onscreen Exercises	Yes

Prerequisites

No previous CAD experience is necessary. However, architectural design, drafting, or engineering experience is highly recommended. It is also recommended that the student have a working knowledge of Microsoft® Windows®.

Course Outline

Building Information Modeling in Revit Architecture

- Building Information Modeling
- Overview of the Revit Architecture Interface
- Revit Architecture Terminology
- Starting Revit Projects
- Viewing Commands

Basic Drawing and Editing Tools

- General Drawing Tools
- Editing Revit Elements
- Basic Modifying Tools

Datum Elements - Levels and Grids

- Setting Up Levels
- Importing CAD Files
- Creating Structural Grids
- Adding Columns

Drawing and Modifying Walls

- Drawing and Modifying Walls
- Helpful Editing Tools

Doors and Windows

- Adding Doors and Windows
- Loading Door and Window Types from the Library
- Creating Additional Door and Window Sizes

Curtain Walls

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

Creating Views

- Duplicating Views
- Adding Callout Views
- Setting the View Display
- Creating Elevations
- Creating Sections

Floors

- Creating Floors
- Creating Shaft Openings
- Creating Sloped Floors

Components

- Adding Components

Reflected Ceiling Plans

- Creating Ceilings
- Ceiling Soffits
- Adding Ceiling Fixtures

Roofs

- Creating Roofs
- Creating Roofs by Footprint
- Reference Planes and Work Planes
- Creating Roofs by Extrusion
- Cleaning Up Wall and Roof Intersections

Vertical Circulation

- Creating Standard and Custom Stairs
- Creating Ramps
- Working with Railings

Construction Documents

- Setting Up Sheets
- Placing and Modifying Views on Sheets
- Printing Sheets

Annotating Construction Documents

- Working with Dimensions
- Working With Text
- Adding Detail Lines and Symbols

Tags and Schedules

- Adding Tags
- Rooms and Room Tags
- Working with Schedules
- Creating Legends

Detailing in Revit Architecture

- Setting Up Detail Views
- Creating Details
- Annotating Details
- Keynoting and Keynote Legends
- Patterning

Worksets

Additional Tools

- Creating Curtain Wall Types with Automatic Grids
- Annotating Dependent Views
- Enhancing Views
- Creating Dormers
- Revision Tracking
- Creating Schedules
- Creating a Repeating Detail

Note: The suggested class duration is a guideline. Topics and duration may be modified by the instructor based upon the knowledge and skill level of the class participants.

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