

Revit Architecture Essentials

Course Description

This course covers the basics of Revit® Architecture, from schematic design through construction documentation. Students are introduced to the concepts of Building Information Modeling and the tools for parametric building design and documentation.

This course offers both imperial and metric hands-on exercises representing real-world design scenarios.

Suggested Course Duration:	3 days
Pages:	418
Trial CD:	Yes
Onscreen Exercises Included?	Yes

Objectives

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:

- Describe the benefits of Building Information Modeling.
- Use the fundamental features of Revit Architecture.
- Use the parametric 3D design tools to design projects.
- Create detailing and drafting views.
- Create construction documentation.
- Use the presentation tools for presenting models.

Who Should Attend

This course is designed for new users of Revit Architecture.

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® XP or Microsoft® Windows® 2000.

Course Outline

Day 1

Building Information Modeling

- Building Information Modeling

Revit Architecture Basics

- Exploring the User Interface
- Working with Revit Elements and Families
- Starting a Project

Starting a Design

- Creating a Basic Floor Plan
- Creating and Modifying Levels
- Working with Grids

The Basics of the Building Model

- Adding and Modifying Walls
- Working with Compound and Vertically Compound Walls
- Using Editing Commands to Add Walls
- Adding and Modifying Doors
- Adding and Modifying Windows

Loading Additional Building Components

- Adding and Modifying Component Families

Day 2

Viewing the Building Model

- Managing Views
- Controlling Object Visibility
- Creating and Modifying Section and Elevation Views
- Creating and Modifying 3D Views

Using Dimensions and Constraints

- Placing Dimensions and Tags
- Applying and Removing Constraints

Developing the Building Model

- Creating and Modifying Floors
- Adding and Modifying Ceilings
- Adding and Modifying Roofs
- Adding Curtain Walls
- Creating Stairs and Railings

Day 3

Detailing and Drafting

- Creating Callout Views
- Working with Detailed Views
- Working with Drafting Views

Construction Documentation

- Creating and Modifying Schedules
- Creating Rooms and Room Schedules
- Creating Legends and Keynotes

Presenting the Building Model

- Working with Drawing and Printing Sheets
- Managing Revisions
- Working with Titleblocks
- Creating Renderings
- Using Sun and Shadow Settings
- Using Walkthrough Technique

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

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