



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.

Prerequisites: Basic CAD experience recommended, but not required. 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.

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Course 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.

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 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

Working In Teams

Revit Data Exchange with CAD

Getting Started with Worksets

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

Working with Titleblocks

Creating Renderings

Using Sun and Shadow Settings