



Revit Architecture 2012 Essentials

Course Aim:

This course covers the basics of Revit Architecture 2012, 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.

Pre-Requirements:

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.

Objectives:

The primary objective of this course is to teach students the concepts of Building Information Modelling and introduce the tools for parametric building design and documentation using Revit Architecture 2012.

After completing this course, students will be able to:

- Describe the benefits of Building Information Modeling.
- Use the fundamental features of Revit Architecture 2012.
- Use the parametric 3D design tools to design projects.
- Create detailing and drafting views.
- Create construction documentation.
- Use the presentation tools for design visualization.

Day 1

Building Information Modelling

- 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

- Working with Dimensions
- 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 Text and Tags
- Working with Detail 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

Course Duration:

This is a three-day course.