

Revit Architecture – Essentials Course

Overview

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.

Duration

3 Days (9:30am – 4:30pm) demonstration & practical exercises.

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, Microsoft® Windows® 2000 or Microsoft® Windows® Vista.

Syllabus

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

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

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