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Autodesk® Official Training Guide

Autodesk Revit Architecture 2010 Essentials

Description

This course covers the basics of Autodesk Revit® Architecture 2010. Users are introduced to the concepts of Building Information Modeling and the tools for parametric building design and documentation. Users begin with learning the fundamental features of Autodesk Revit Architecture, and then progress through schematic design, construction documentation, and design visualization.

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

Prerequisites

- Architectural design, drafting, or engineering experience is highly recommended. No previous CAD experience is necessary.
- A working knowledge of Microsoft® Windows® Vista, Microsoft® Windows® XP, or Microsoft® Windows® 2000.

Class Information

Duration

3 days

Objective

To teach users the concepts of Building Information Modeling and introduce the tools for parametric building design and documentation using Autodesk Revit Architecture 2010. Users will be able to complete their first Autodesk Revit Architecture project after completing this class.

Who Should Attend

New Autodesk Revit Architecture users or other Autodesk software users who want to learn essential elements of Autodesk Revit Architecture.

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Register for This Class Online at:
http://www.ddscad.com/html/revit_arch_ess.html

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Course Outline

Building Information Modeling
- Building Information Modeling for Architectural Design

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

Starting a Design
- Creating and Modifying Levels
- Creating and Modifying Grids

The Basics of the Building Model
- Creating a Basic Floor Plan
- Adding and Modifying Walls
- Working with Compound Walls
- Using Editing Tools
- Adding and Modifying Doors
- Adding and Modifying Windows

Loading Additional Building Components
- Working with Component Families

Viewing the Building Model
- Managing Views
- Controlling Object Visibility
- Working with 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
- Working with Ceilings
- Adding and Modifying Roofs
- Creating Curtain Walls
- Adding Stairs and Railings

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 Sheets
- Working with Titleblocks
- Managing Revisions
- Creating Renderings
- Using Walkthroughs
- Using Sun and Shadow Settings

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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