Autodesk
Authorized Training Center

AEC SYSTEMS
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Course Title: Revit Architecture Introduction

Course Code: REV-1A

Duration: 3 Days

Courseware Description

The beginning stage of this course is focused on providing students with plenty of hands-on experience on Revit, learning the basic layout of the screen, tools and 3d model creation. The latter stage of the course is designed to expand the Revit user's knowledge beyond the basics.

Objectives

The primary objective of this courseware is to teach students the concepts and introduce the tools for parametric building design and documentation using Revit Architecture.
After completing this course, students will be able to:

- Understand how a Revit project is structured
- Navigate the various views of a project using the Project Browser
- Understand how Revit creates objects: Work in 3d-space with Levels and Offsets
- Create a range of basic building components and variations within categories such as Walls, Doors, Windows, Schedules
- Use working drawing tools for notation, scheduling & dimensioning,
- Export data by converting Revit drawings in PDF format and create print sets.
- Understand the basics of Component Families and Types
- Understand how Worksets allow a team to work on one project

Who Should Attend

This courseware is designed for new users of Revit Architecture.

Prerequisites

It is recommended that students have a working knowledge of:

- No previous CAD experience is necessary. However, architectural design, drafting, or engineering experience is highly recommended
- Microsoft® Windows® 7 or Windows® VISTA or Windows® XP

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Course Outline

Day 1

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

Day 2

Viewing the Building Model
- Managing Views
- Controlling Object Visibility
- Working with Section and Elevation Views
- Creating and Modifying 3D Views

Developing the Building Model
- Creating and Modifying Floors
- Working with Ceilings
- Adding and Modifying Roofs
- Creating Curtain Walls
- Adding Stairs and Railings

Day 3

Using Dimensions and Constraints
- Working with Dimensions
- Applying and Removing Constraints

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
- Using Walkthroughs
- Using Sun and Shadow Settings