

Course Outline

Autodesk Revit Architecture 2008 Hands On Training

Objective:

This course introduces the core concepts of Building Information Modeling and the tools for parametric design and documentation in Revit Building 9.1. Students learn through guided hands-on exercise, the techniques for developing a project within the Revit environment and practice using collaboration tools for sharing data with internal and external members of the consultant team.

Course Structure and Schedule

The course is delivered over 3 days; 9AM – 5PM with a one hour lunch intermission. There is one 10 minute break between lecture topics.

Prerequisites:

No previous CAD experience is necessary. However, architectural design, drafting, experience is highly recommended. 3D modeling experience is not necessary but is advised. It is also recommended that the student have a working knowledge of Microsoft® Windows® XP.

Cost:

As Discussed

Materials:

1. Custom project datasets and electronic tutorial for completing the exercises.
2. A copy of the Essentials Courseware to be used as reference material.

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Syllabus

Day 1	<p>Building Information Modeling</p> <ul style="list-style-type: none">• An Overview of the Building Information Modeling Concept <p>Using Autodesk Revit Building</p> <ul style="list-style-type: none">• Navigating the User Interface• Working with views• Working with Building Elements• Basic Commands and Establishing Constraints• HANDS ON EXERCISE <p>Starting a Design</p> <ul style="list-style-type: none">• Starting a Project• Working with Levels• Working with Grids and Columns• Importing Backgrounds• HANDS ON EXERCISE <p>Creating Walls</p> <ul style="list-style-type: none">• Getting Started with Walls and openings• Editing a wall Sketch• Configuring Materials and Hatches• Building Compound Walls• Working with Elevations and Sections• Configuring Line Types• Working with Curtain Walls• HANDS ON EXERCISE <p>Structural Members and Roofs</p> <ul style="list-style-type: none">• Floor Systems• Ceilings - RCP• Beams and Columns• Working with Roofs and Joined Roofs• Working with Stairs and Ramps• Working with Profile Families• Working with View Range• HANDS ON EXERCISE	<p>Students are introduced to the concept of BIM and the fundamental features of Revit Building.</p> <p>Students also begin to acquire knowledge of the application's behavior.</p> <p>Start to assemble a 3D model of the training project at hand.</p>
Day 2	<p>Design Development</p> <ul style="list-style-type: none">• Working with Design Options• Room Object Plan and Section• Area Analysis Plans• Working with Schedules	<p>Students are taken through the design development stage and are</p>

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	<ul style="list-style-type: none"> • HANDS ON EXERCISE <p>Understanding Groups</p> <ul style="list-style-type: none"> • Working with Groups • HANDS ON EXERCISE <p>Introduction to Families</p> <ul style="list-style-type: none"> • What is a Revit Family • Introduction to Solid Modeling • Object categories and Object Styles • Assigning Custom Parameters • Working with In-Place Families <ul style="list-style-type: none"> Canted Wall Corner Window • Working with Standard Families <ul style="list-style-type: none"> Parametric Cube Standard Door Family • HANDS ON EXERCISE 	<p>introduced to tools to accomplish this stage of the design process.</p> <p>In addition Students are introduced to the concepts of building custom content to finalize their design.</p>
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<p>Day 3</p>	<p>Putting a Construction Set Together</p> <ul style="list-style-type: none"> • View Overrides and View Templates • Working with Tags • Configuring Custom Tags • Working with Legends • Working with Dimensions, Text, and Symbols • Working with View Filters • HANDS ON EXERCISE <p>Sections and Details</p> <ul style="list-style-type: none"> • Working with Wall Sections • Detailing in Revit • Building Detail Components • Configuring Repeating Details • Importing Typical DWG Details • HANDS ON EXERCISE <p>Creating and Publishing Drawing Sets</p> <ul style="list-style-type: none"> • Configuring the Project Browser 	<p>Students learn how to use the automated tools for documenting and publishing the project.</p>
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	<ul style="list-style-type: none">• Working with Sheets• Working with 3D Views• Publishing Sheets• Exporting Content to AutoCAD• Import and Export Settings• HANDS ON EXERCISE <p>Collaboration</p> <ul style="list-style-type: none">• Shared Positioning and Linked Files• Querying Linked Files and Controlling Visibility• Introduction to Worksets• HANDS ON EXERCISE	
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