Autodesk® Revit® Architecture Advanced 2017

3- Day BIM Modeling Course

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Course Outline

BIM Management: Template and Family Creation

Chapter 1 Creating Custom Templates

1.1 Preparing Project Templates
1.2 Customizing Annotation Types
1.3 Creating Title Blocks
1.4 View Templates

Chapter 2 Schedules

2.1 Introduction to Schedules
2.2 Creating Building Component Schedules
2.3 Modifying Schedules Appearance
2.4 Creating Key Schedules
2.5 Advanced Schedule Options
2.6 Creating Material Take-off Schedules

Chapter 3 Custom System Families

3.1 Creating Wall, Roof, Floor, and Ceiling Types
3.2 Vertically Compound Walls
3.3 Stacked and Embedded Walls
3.4 Creating MEP System Families

Chapter 4 Component Family Concepts

4.1 Creating Component Families
4.2 Creating and Parametric Framework
4.3 Creating Family Elements
4.4 Creating Family Types

Chapter 5 Advanced Family Techniques

5.1 Additional Tools for Families
5.2 Visibility Display Settings

Chapter 6 Additional Family Types

6.1 Creating In – Place Families
6.2 Creating Profiles
6.3 Creating Annotation Families
6.4 Working with Project and Shared Parameters

Chapter 7 Creating Architectural Specific Families

7.1 Creating Custom Doors and Windows
7.2 Creating Angled Cornices and Copings
7.3 Creating Custom Railings
7.4 Families for Railings, Balusters, and Panels

Chapter 8 Creating MEP Specific Families

Chapter 9 Creating Structural Specific Families

Conceptual Design & Visualization

Chapter 1 Massing Studies

1.1 Overview of Massing Studies
1.2 Placing Mass Elements
1.3 Creating Conceptual Massing
1.4 Creating Mass Forms
1.5 Dynamic Editing for Conceptual Massing
1.6 Working with Profiles and Edges
1.7 Moving From Massing to Building

Chapter 2 Space planning & Area Analysis

2.1 Space Planning
2.2 Area Analysis
2.3 Creating Colour Schemes

Chapter 3 Visualization

3.1 Creating Perspective Views
3.2 Producing Sketches
3.3 Adding Exploded Views
3.4 Setting up Solar Studies

Chapter 4 Rendering

4.1 Producing Basic Renderings
4.2 Working with Lighting
4.3 Enhancing Renderings

Collaboration Tools

Chapter 1 Phasing, Design Options, and Groups

1.1 Project Phasing
1.2 Design Options
1.3 Working with Groups

Chapter 2 Linking Models

2.1 Linking Models
2.2 Views and Linked Models
2.3 Copying and Monitoring Elements
2.4 Coordinating Linked Projects

Chapter 3 Importing and Exporting

3.1 Importing and Linking Vector Files
3.2 Modifying Imported Files
3.3 Importing Raster Image Files
3.4 Exporting Files
3.5 Exporting for Energy Analysis