

Course Title : Revit Structure 2015 - Fundamentals

Duration : 3 days

Courseware description

This courseware covers the basics the Revit Structure, from schematic design through construction documentation. Participants are introduced to the concepts of Building information Modelling and the tools for parametric design and documentation.

Course Objectives : After completing this class, you will be able to:

- Describe the benefits of Building Information Modeling
- Use the fundamental features of Revit Structure
- Use the parametric 3D design tools for creating and analyzing projects
- Develop a level of comfort and confidence with Revit Structure through hand-on experience

Who Should Attend :

- This courseware is designed for any new user of Revit Structure.

Prerequisites :

No previous CAD experience is necessary. However, Architectural design, drafting, or engineering experience is useful. Participants should have an understanding of the common computer programs like Microsoft Windows XP or Microsoft Windows 7.

Assessment Tests :

- Create the Building model from linking CAD formats (100%).

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Day 1

Introduction to Revit

- What is Autodesk Revit?
- What is Building Information Modelling?
- What is Autodesk Revit Structure?
- The Revit interface
- System Requirements for Revit
- Element of Autodesk Revit Structure

Creating a Project

- Creating a Project Using a Template
- Entering Project Information
- Using Information from Other Sources
- Importing or Linking CAD Formats

Levels and Grids

- Levels
- Grids

Foundations

- Adding Isolated Foundations

Columns

- Creating Structural Columns

Beams

- Creating Beams

Floors

- Adding Floors

Walls

- Creating Structure Walls

Doors

- Placing Doors

Windows

- Placing Windows

Stairs

- Creating Stairs

Structure Roof

- Creating rafter
- Creating purlin

Day 2

Reinforcement Tools

Rebar Cover

- Rebar Cover References
- Editing Rebar Cover
- Modifying Rebar Cover Settings

Rebar Shapes

- Placing Rebar Shapes in a Host

Rebar Hooks

- Rebar Hook Definitions

Plan Views

- Creating a Plan View

Elevation Views

- Creating an Elevation View

Section Views

- Creating a Section View

Callout Views

- Creating a Callout View

Perspective 3D Views

- Creating a Perspective 3D View

Schedules or Quantity

- Creating a Schedule or Quantity

Specifying Schedule Properties

- Fields tab
- Filter tab
- Sorting/Grouping tab
- Formatting tab
- Appearance tab

Reusing Schedule Views

- Saving Schedule Views to an External Project
- Inserting Schedule Views from Another Project

Day 3

Dimensions

- Aligned Dimensions
- Linear Dimensions
- Angular Dimensions
- Radial Dimensions
- Diameter Dimensions
- Arc Length Dimensions
- Spot Elevations
- Spot Coordinates
- Spot Slopes

Text Notes

- Adding Text Notes
- Specifying Arrowhead Styles

Keynotes

- Differences Between Keynoting and Tagging a Material
- Types of Keynotes
- Placing a Keynotes

Tag

- Loading Tag Styles
- Applying a Tag By Category
- Tag All Not Tagged
- Material Tags

Symbols

- Adding Symbols

Detail Views

- Creating a Detail View

Drafting Views

- Creating a Drafting View

Detail Component

- Inserting a Detail Component

Detail Lines

Filled Region Sheets

- Adding a Sheet

Title Blocks

- Creating a Title Block

Viewports

- Creating a Viewport Type

Sheet Lists

- Creating a Sheet List

Revisions

- Entering Revision Information