it training solutions ltd

Autodesk Revit Structure Essentials

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contact us to book

Duration : 3 Days

Overview

This course covers the basics of Revit Structure, from schematic design through construction documentation. Students are introduced to the concepts of Building Information Modelling and the tools for parametric building design and documentation.

Target Audience

This course is aimed at Those who want to get to grips with the primary features of Revit Structure and wish to learn the fundamentals of Building Information Modelling.

Prerequisites

It is recommended that you have a working knowledge of Microsoft supporting systems. Additionally, it is assumed that the student has past experience working with AutoCAD.

Objectives

The primary objective of this course is to teach students the concepts of Building Information Modelling and introduce the tools for parametric building design and documentation using Revit Structure. After completing this course, students will be able to:
- Describe the benefits of Building Information Modelling
- Use the fundamental features of Revit Structure
- Use the parametric 3D design tools to design projects
- Create detailing and draughting views
- Create construction documentation
- Use the presentation tools for presenting models

Course Content

DAY 1
INTRODUCTION TO BIM AND AUTODESK REVIT
Building Information Modelling
Exploring the User Interface
Starting a New Project
Working with Revit Elements and Families
Viewing the Model
Exploring Views – Sections, Elevations & 3D
Controlling Object Visibility

BASIC DRAWING AND MODIFY TOOLS
Using General Drawing Tools
Editing Elements
Working with Basic Modify Tools
Working with Additional Modify tools

STARTING AUTODESK REVIT STRUCTURE PROJECTS
Defining Structural Settings
Linking AutoCAD Drawings
Linking in Autodesk Revit Models
Copying and Monitoring Elements
Coordination Review

Setting Up Levels
Creating Gridlines

WORKING WITH VIEWS
Duplicating Views
Adding Callout Views
Setting the View Display
Elevations and Sections

ADDING COLUMNS
Placing Structural Columns
Loading Column Types from Library
ADDING STRUCTURAL FRAMING (BEAMS)
Placing Structural Framing (Beams)
Loading Framing Types from Library
Adding Beam Systems
Adding Cross Bracing

MODELLING WALLS
Creating Wall Types
Modelling Walls
Modifying Walls

Course content liable to change without notice

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DAY 2

ADDING FOUNDATIONS
Creating Wall Footings
Loading Foundations from Library
Adding Isolated Footings
Creating Structural Foundation Slabs

MODELLING FLOORS
Creating Floors Types
Modelling Floors
Creating Shaft Openings
Creating Sloped Floors

MODELLING ROOFS
Creating Roofs Types
Modelling Roofs
Creating Roofs by Footprint
Reference Planes & Work Planes

VERTICAL CIRCULATION
Creating Component Stairs
Modifying Component Stairs
Sketching Customer Stairs
Creating Ramps

STRUCTURAL ANALYSIS
Preparing Projects for Structural Analysis
Viewing Analysis Models
Adjusting Analysis Models
Placing Loads

DAY 3

ANNOTATING CONSTRUCTION DOCUMENTS
Working with Dimensions
Working with Text
Adding Details Lines and Symbols
Creating Legends

ADDING TAGS AND SCHEDULES
Adding Tags
Working With Schedules

CREATING DETAILS
Setting Up Detail Views
Adding Details Components
Annotating Details
Importing Typical DWG Details.

CREATING CONSTRUCTION DOCUMENTS
Setting Up Sheets
Placing and Modifying View on Sheets
Printing Sheets
Exporting sheets to DWG format.

Training Options

- Public scheduled courses at one of our training venues

- Private courses delivered at client's premises throughout the UK, at our training venues or a convenient third-party location

- Bespoke customised courses written to your specific needs, delivered at client's premises throughout the UK, at our training venues or a convenient third-party location

- For further information please contact us on 0191 377 8377

What's Included

- 1 delegate per computer
- Relaxed refreshment area at our training venues
- Lunch and refreshments when training is delivered at our training venue
- Comprehensive course manual and exercises
- Laptops are available for training delivered at client's premises