



Course Description and Outlines

Revit Structure Essentials



Course Description

Autodesk Revit is building information modeling software for architects, structural engineers, MEP engineers, designers and contractors. It allows users to design a building and structure and its components in 3D, annotate the model with 2D drafting elements, and access building information from the building models database. Revit is 4D BIM capable with tools to plan and track various stages in the buildings lifecycle, from concept to construction and later demolition.

Course Target

In this course, participants will be introduced to the concept of Building Information Modelling (BIM) itself, as well as the basics of Autodesk Revit. Upon the completion of your Revit training course at Excellent-Way you will be geared with the knowledge to create both residential and commercial multifaceted Revit models.

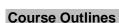
Course Duration

10 Sessions x 3 Hours per Session = 30 Total Hour

Attending the Course

The course includes workshops and in-session applications for every set of points covered. Each trainee will have a chance to apply his new skills on actual project supervised by the instructor. The location is fully equipped with high end computers so you won't have to bring your laptop







Introduction

Building Information Modeling Overview of the Interface Standard Terminology Starting Projects Viewing Commands

Basic Drawing and Editing Tools

General Drawing Tools Editing Elements Basic Modifying Tools

Setting up Levels and Grids

Creating Structural Grids Adding Foundations and Structural Slabs Creating Wall Footings Isolated Footings Combined Footings Raft Foundation Piers and Pilasters Creating Structural Slabs

Beams and Framing Systems

Adding Beams and Beam Systems Modifying Beams Framing Annotation Adding Bracing

Annotating Construction Documents

Working with Dimensions Working with Text Adding Detail Lines and Symbols Creating Legends

Detailing

Setting up Detail Views Creating, Annotating and Patterning Details

Scheduling

Structural Schedules Graphical Column Schedules Working with Schedules Creating Schedules

Creating Revit Families

Family Concepts and Techniques Creating Custom Families

Structural Analysis

Creating and Placing Loads Exporting for Structural Analysis

Working with Views

Duplicating Views Adding Callout Views Setting the View Display Elevations and Sections

Starting Structural Projects

Importing and Linking CAD Drawings Linking Architectural Projects Copying and Monitoring Elements

Structural Reinforcement

Adding Structural Reinforcement Adding Rebar Modifying Rebar Placement Reinforcing Walls, Floors, and Slabs

Construction Documents

Setting up Sheets Placing and Modifying Views on Sheets Revision Tracking Printing Sheets

Course outline is subjected to minor changes as per class and trainees requirements.