

AUTODESK REVIT STRUCTURE ADVANCE

Objectives

The main objective of this course is to teach trainee the advance commands and tools for producing a detailed and specific structural model by using Revit as part of the Building Information Modelling process. After completing this course, trainee will be able to:

- ✓ Create 2D detail components, work with detail groups, and manage a library of typical details.
- ✓ Add 3D rebar to beams and columns and add area and path reinforcements to walls and slabs.
- ✓ Create a slab on metal deck, create a precast hollow core slab for a project, create a 3D steel gusset plate, and add steel stiffeners in a structural model.
- ✓ Work with bar joist and truss families.
- ✓ Link Revit models, coordinate and monitor changes in a current project and a linked project, and check and fix interference conditions in Revit Structure projects.
- ✓ Create, use, and manage worksets.

Training Programme Day 1

Chapter	Topic	Duration	Time
Chapter 1	Creating Advance Components		
	About In-Place Families		
	About Solids and Voids		
	Creating 3D Geometry.		
	Modifying In-Place Families		
	 Guidelines for Creating and Modifying In- Place Families 		
	About Families		
	About Component Families		
	About the Family Editor		
	About Parametric Formulas		
	 Process of Creating Standard Component Families 		
	 Guidelines for Creating Modifying Component Families 	4 -Hour	9.00 AM - 1.00 PM
	Overview Tapered Beam		
	About Tapered Beam		
	Process of Creating Tapered Beam		
	Guidelines for Creating Tapered Beam		
	Overview Hollow Core Slab		
	About Hollow Core Slab		
	Process of Creating hollow Core Slab		

	Guidelines for Creating Hollow Core Slab		
	Overview Column with Corbel		
	About Column with Corbel		
	 Guidelines for Creating Column with Corbel 		
Chapter 2	Creating Trusses Overview. About Bar Joist Families Process of Modifying Bar Joist Families Guidelines for Modifying Bar Joist Families Overview About Trusses Process of Creating Truss Families Process of Attaching Trusses to Roofs	2-Hour	2.00 PM- 4.00 PM
Chapter 3	Guidelines for Working with Trusses Working with Clients and Consultants Using Revit		
	 Architecture Overview. Linking Revit Architecture Projects RVT Link Display Settings Dialog Box Guidelines for Linking Revit Models Overview. Copy and Monitor Tools Coordinating and Monitoring Changes in a Current Project. Guidelines for Coordinating and Monitoring Changes Overview About Interference Checking. Guidelines for Checking and Fixing Interference Conditions. 	1-Hour	4.00 PM – 5.00 PM

Training Programme Day 2

Chapter	Topic	Duration	Time
Chapter 4	Collaborative Project		
	About Linked Projects		
	 Managing Shared Coordinates 		
	About Linked Locations		9.00 AM -
	 Acquiring and Reporting Shared Coordinates 	1-Hour	10.00 AM
	Guidelines for Working with Linked Projects		
	About Project Collaboration		
	Guidelines for Monitoring and Coordinating		
	Linked Projects		

Chapter 5	Working with Rebar		
	 Overview 		
	About 3D Rebars		
	 Process of Adding 3D Rebar to Beams and Columns 		
	 Guidelines for Adding 3D Rebar to Beams and Columns 	3-Hour	10.00 AM- 1.00 PM
	 Overview 		
	About Area and Path Reinforcements		
	Process of Adding Reinforcements		
	Guidelines for Working with Reinforcements		
Chapter 6	Working with Steel		
	Overview.		
	 About 3D Steel Gusset Plates 		
	 Process of Creating a 3D Steel Gusset Plate 		2.00 PM -
	 Guidelines for Creating 3D Steel Gusset Plates 	1-Hour	3.00 PM
	Overview.		
	About Steel Stiffeners		
	 Process of Adding Steel Stiffeners 		
	Guidelines for Adding Steel Stiffeners		
Chapter 7	Multi-User Worksharing		
	Overview		
	About Worksets .		
	Process of Creating and Using Worksets		
	About Central Files		3.00 PM -
	Moving Central Files Code deliver of the Heigen Westerney of Control	2-Hour	5.00 PM
	 Guidelines for Using Worksets and Central Files 		
	Overview.		
	 Methods of Opening Worksets. 		
	 Methods of Setting Workset Visibility. 		
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	 Process of Managing Worksets 		