

KG MECH

Electro Mechanical Pvt. Ltd.



REVIT CIVIL



SANTOSH NAGAR | MASAB TANK

PROGRAMME DESCRIPTION

Revit Civil Modeling for the Construction Industry

At KG MECH, we term Real Time Training as a methodology and practice instituted upon the trainees to improve their skills and match the job requirements. Our trainees are been made to work on the Gulf-oriented projects rigorously with expert supervision to build a bridge between the theoretical knowledge and the practical job work.

This program introduces the full range of Revit Civil topics from the definitions, Basic Calculations-manual & software, Codes & Standards, Drafting and Installation Procedures. Each topic is presented so as to demonstrate the “real world” impact of design decisions on resulting system performance. (See the “Course Outline” section for details of topics.)

This Training Programme gives comprehensive knowledge of Design, Drafting & Installation of Building Service. The Programme focuses on the real time work related concepts, issues, which is enhanced by the inputs of the instructor’s practical experience.

WHO SHOULD ATTEND

Civil Engineers, Designers, and Draftsmen who want to learn Revit
Anyone working on civil drawings, drafting, or modeling for building and infrastructure projects.P

Students or professionals who want to start a career in Revit Civil Modeling & Drafting.

WHAT YOU WILL LEARNHAT

- How to use Revit Civil for 3D modeling and drafting.
- How to create and edit civil elements in Revit.
- How to prepare civil drawings and project documentation.

KG -MECH Pvt. Ltd. with its inception has been diversified its business in different service sectors such as Contracting, Real time training, Technical Services .

“KG MECH was founded with an idea of bridging the gap between the talented, yet unpolished resources and the employers for better hiring and achievement of the goals.”

KG-MECH offers leadership and training programs for the advancement of Engineer’s technical excellence, promotes to incorporate code of ethics in their way of life and place of work. The high level of expertise they deliver makes sure that the student learns the concept and performs it with high caliber.

“80% Practical Training & 20% Theoretical Training”





Achieve complete understanding of Revit Civil modeling Civil components, BIM workflows annotation standards, project documentation, and preparation of complete civil drawings in Revit.

“ Complete Revit Civil Training ”



MODULE 1 – BIM INTRODUCTION

- Introduction to REVIT
- Building Information Modeling
- Purpose & Benefits of BIM
- Fundamentals of REVIT Software
- REVIT Project Templates
- REVIT Family Templates
- Introduction to Building Services – Architecture, Structural, MEP
- Work Flow Chart of Building Services
- Basic Views
- Exploring the User Interface
- Ribbon Framework
- Guidelines for Using the User Interface

MODULE 2 – REVIT ARCHITECTURE

- Introduction to REVIT Architecture
- Creating Topo surface
- Modifying Topo surface
 - Sub region
 - Split
 - Merge
- Building Pads
- Site Components
- Parking Components
- Managing Views
- Floor Plan View
- Ceiling Plan View
- Cutting a Plan View
- Plan Region
- Elevation View
- Section View
- 3D Views
- Cropping a View
- Grids Modeling
- Levels
- Adding levels
- Modifying Levels





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“Online & Class Room Training”



With Revit 2014

- Level properties
- Constraint level lines
- Remove level lines
- Wall Modeling
- Wall properties
- Architecture Wall
- Creating wall element type
- Wall shapes & opening
- Stacked wall
- Curtain Wall
- Creating curtain walls
- Curtain grids
- Mullions
- Reshaping Curtain wall panels
- Doors
 - Doors placement
 - Door Properties
 - Load from family
- Windows
 - Windows Placement
 - Window Properties
 - Load from family
- Components
 - Loading components
 - Placing components
 - Modifying components
- Floors
 - Creating floors
 - Placing Element on sloping Floors
- Creating Ceiling
- Roofs
 - Roof by Footprint
 - Roof by Extrusion
 - Join/Unjoin roof
 - Gutter
- Stairs & Ramp
 - Creating Stairs
 - Stair Case Calculation
 - Modifying Stairs





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- Stair Properties
- Ramp
- Railing

MODULE 3 – REVIT STRUCTURE

- Introduction to REVIT Structure
- Grids Representation
- Levels Modeling
- 3D Modeling of Structural System
- Setting of Constraints
- Structural Components
 - Beams
 - Core Walls
 - Column
 - Floor
 - Other Structural Components
- Foundations
 - Isolated Foundations
 - Wall & Slab Foundations
- Structure Reinforcements
 - Rebar System
 - Area System
 - Path Reinforcements
 - Fabric System

MODULE 4 – REVIT MODELING

- 3D Modeling in REVIT
- Modeling Commands
- Void Forms
- REVIT Families
- Creating and Modifying Families

MODULE 5 – REVIT PRESENTATION

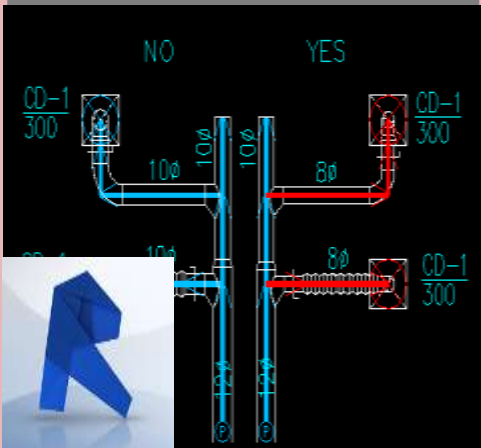
- Manage Menu
- Views Menu
- Annotation Menu
- Annotations & Dimensions





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“Online & Class Room Training”



- Tags & Texts
- Modify Menu
- Layout Setting in REVIT
- Legends & Symbols
- Creating Schedules
- Plotting in REVIT
- Rendering Settings

MODULE 6 – REVIT ADVANCE

- Collaborate Menu
- Concept & Creation of Central File
- Working Options of Central File
- Fabrication Settings in REVIT
- Work Plane Settings
- Material Properties
- View Range Options
- Bill of Quantities





Mr. Syed Abdul Gaffar
M.Tech - HVAC, Design Specialist
HRO – Education Director



**“Highly Experienced Trainers
with GULF Experience”**



INSTRUCTOR PROFILES

Mr. Syed Abdul Gaffar, M.Tech – HVAC has over 12 years of experience in MEP systems including Design, Drafting, Installation & Maintenance of the MEP Systems with international Experience.

He has served to international projects of UAE, KSA, Qatar, USA & India, as Senior Mechanical Engineer & MEP Systems Manager. During his career, Mr. Syed Abdul Gaffar was involved in many prestigious projects like Residential, Commercial, Industrial & Schools Projects.

His Experience includes MEP Design for Building Services as per ASHRAE, SMACNA, NFPA, NEC, DEWA, ASME CODES.

Currently Mr. Syed Abdul Gaffar is a CEO, KG – MECH Electro-Mechanical LLC. He is also presiding the responsibilities as on Education Director, HRO (Human Rights Observers). He has successfully trained numerous Mechanical engineers from different nationalities for HVAC/MEP courses organized by KG – MECH.

Mr. Syed Abdul Gaffar is

- ❑ Education Director – HRO, Human Rights Observers, Hyderabad Cell.

Mr. Syed Abdul Gaffar is a member of

- ❑ NFPA – National Fire Protection Association
- ❑ ISHRAE – Indian Society of Heating Refrigeration & Air Conditioning Engineers
- ❑ IGBC – Indian Green Building Council
- ❑ IHRA – International Human Rights Association





Contact Us



TRAININGS

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**We have Expert Faculties in this three
Engineering Fields:**

Upto 15yrs Exp MECHANICAL ENGINEERS

Upto 08yrs Exp ELECTRICAL ENGINEERS

Upto 07yrs Exp CIVIL ENGINEERS