KG MECH

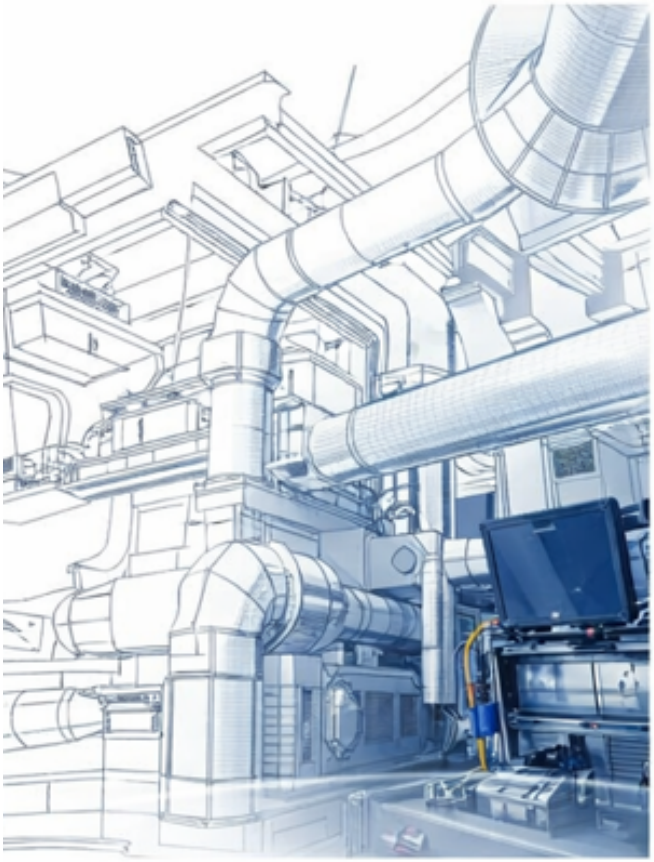
Electro Mechanical Pvt. Ltd.

MEP

DESIGN, DRAFTING & BIM TRAINING

Professional Training for HVAC, Electrical & Plumbing Building Systems

HVAC | ELECTRICAL | PLUMBING



Build Your Career in MEP Design

KG MECH
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HVAC

DESIGN & DRAFTING TRAINING

Empowering Engineers for Real-World MEP Projects

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SANTOSH NAGAR | MASAB TANK

KG MECH
Electro Mechanical Pvt. Ltd.

KG-MECH Pvt. Ltd. **with 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"

PROGRAMME DESCRIPTION

HVAC Design & Drafting 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 HVAC Systems 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 HVAC 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

Mechanical Engineers/ Designers/ Draftsman's who are responsible for design, drafting, installation, estimation and maintenance of HVAC system for Building & Facilities.

MEP Engineers/ Managers including Electrical, Instrumentation Engineers who wish to understand/ supervise Electro-Mechanical Projects.

Mechanical Engineers at entry or senior level, who wish to streamline their existing knowledge to make a career in HVAC Engineering for Building System.

WHAT YOU WILL LEARN

Learn how HVAC systems "work," how to design, draft, install and maintain HVAC Systems.

KG MECH
Electro Mechanical Pvt. Ltd.

Achieve complete understanding of HVAC System components, international standards, Design Calculation, drafting standards, Procedures & HVAC drawings.

"Complete AUTO CAD Training"

MODULE 1 – HVAC INTRODUCTION

Introduction to HVAC

- HVAC Introduction
- Human Comfort Condition
- Application of HVAC Systems

Basic Components

- Basic Refrigeration Cycle & its function
- Refrigeration Cycle
- Types of Compressors
- Types of Condensers
- Types of Expansion Valves
- Types of Evaporators
- Properties of Refrigerants

Air-Conditioning Equipment's

- Classification
- Window A/C Systems
- Split A/C Systems
- Package A/C Systems
- VRF/VRV Systems
- Central Air-Conditioning/Chill Water System
- DX System

Categories of Air Conditioning

- All air system
- All water system
- Air - water system
- Direct Refrigerant system

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"Complete Shop Drawing Preparation along with BOQ"

Psychometric

- Psychometric Chart
- Properties of Air (DBT, WBT, RH, SH etc.)
- HVAC Processes
- Using Psychometric Chart

MODULE 2 – HVAC DESIGN

Heat Load Calculations

- Sources of Heat
- Building Survey
- Heat Load Formula
- Finding U value for Walls, Roof, Glass etc.
- Finding ΔT (Temperature Difference) value for Walls, Roof, and Glass etc.
- Ventilation Requirements
- Infiltration Concept
- Heat Load Estimate (HAP Software)
- Tonnage (TR) & Air Flow (L/S) for Project

Selection of Machines

- Selection based on Heat Load Results
- Selection as per Application
- Selection as per Project Specifications
- Placing Location of Equipment

Air Distribution System

- Duct – Definition & Classification
- Aspect Ratio
- Duct Sizing Methods
- Mc Quay Duct Sizer
- Duct Routing & Levels

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Achieve complete understanding of HVAC System components, international standards, Design Calculation, drafting standards, Procedures & HVAC drawings.

"Online & Class Room Training"

- Single Line Drawing
- Double Line Drawing as per SMACNA
- Selection of Diffusers & Grilles
- Duct Accessories (Sound Attenuators, VAVs, VD, FD, AD, FC etc.)
- Selection of Supports & Span
- Ducting Schematics
- Static Pressure Calculations
- Selection of FAN
- BOQ for Ducting System



Fresh Air System

- Concept of Fresh Air
- Mixed Air System – Fresh & Return
- 100% Fresh Air Handling System
- Heat Recovery Air Handling Unit
- Fresh Air Fan Selection

Chilled Water/ Hydronic System

- Concept of Chilled Water System
- Classification of Piping
- GPM Calculations
- Pipe Sizing of Chilled Water System
- Valves used in Chilled Water System
- Pipe Routing & Levels
- Pump Head Calculation
- Selection of Pumps
- Bill of Quantities




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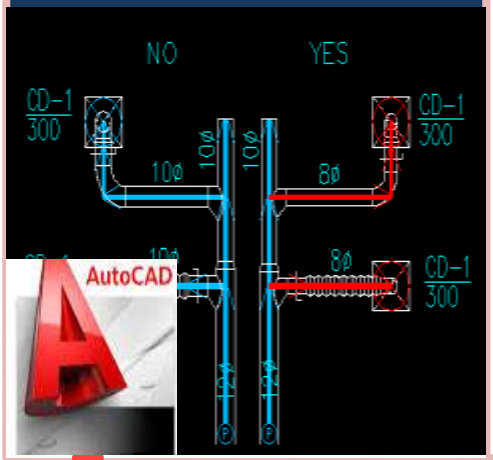

International Standards

- ASHRAE
- SMACNA
- ASME
- NFPA
- IAQ

MODULE 3 – EXHAUST AIR SYSTEM

Kitchen Exhaust System

- Kitchen Exhaust Concept
- Classification of Stoves
- Kitchen Hood Types and applications
- Kitchen Hood Calculation by the Software
- Kitchen Hood Calculation by Manual
- Makeup Air Calculation
- Makeup Air Fan Selection
- Kitchen Exhaust and Makeup Air Duct Routing and Designing

Parking Exhaust System

- Parking Exhaust Concept
- Parking Exhaust Types and Procedures
- Tube Axial Concepts and Design
- Central Exhaust Ducting Concepts and Design
- Parking Exhaust Fan Calculation

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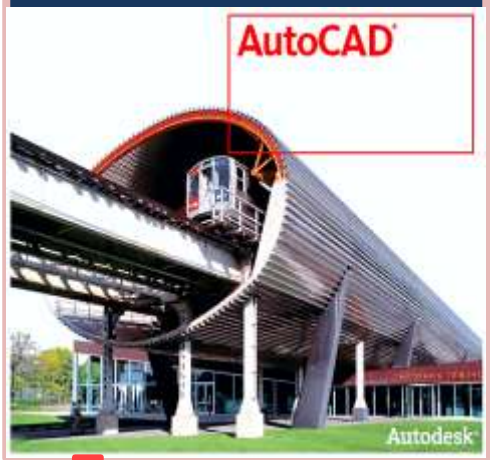

Staircase Pressurization System

- Staircase Pressurization System concept
- Staircase Pressurization System types and Procedure
- System Components
- Staircase Pressurization System Design
- Codes and Standards
- Staircase Pressurization System Calculation
- Duct routing and Designing for fresh air
- Fresh Air Fan Selection

MODULE 4 – HVAC SOFTWARE

HVAC Software

- HAP – Hourly Analysis Programme
- BETA Software – Air Outlets
- McQuay Duct Sizer
- McQuay Pipe Sizer
- Static Pressure Calculation
- Pump Head Calculation
- Kitchen Exhaust System
- Car Park Exhaust System
- Master Converter

MODULE 5 – HVAC DRAFTING AUTOCAD

- Introduction to AutoCAD
- Single Line Drawing
- Builders Work

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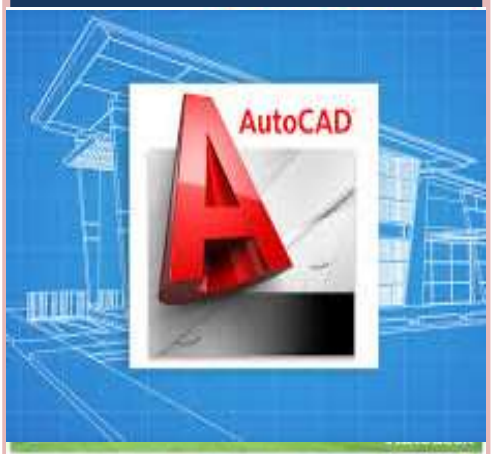

- Double Line Drawing
- Shop Drawing – SAD, RAD, FAD, EAD, KED, PED, CHSR.
- Chiller Detail Drawings
- FCU & AHU Detail Drawings
- Primary & Secondary Pump Detail Drawings
- As-Built Drawing
- Scale Setting & Plotting
- Sections & Schematic Drawing
- Co-Ordination Drawing
- Model Management
- Layout Management
- Equipment Schedules
- International Drawings

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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.

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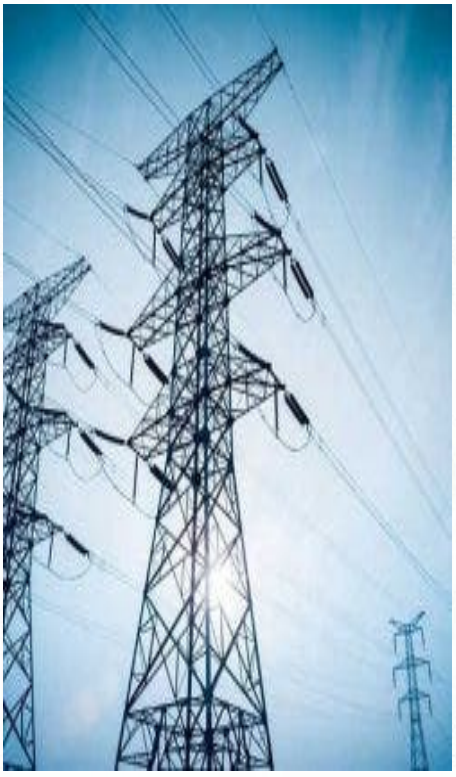
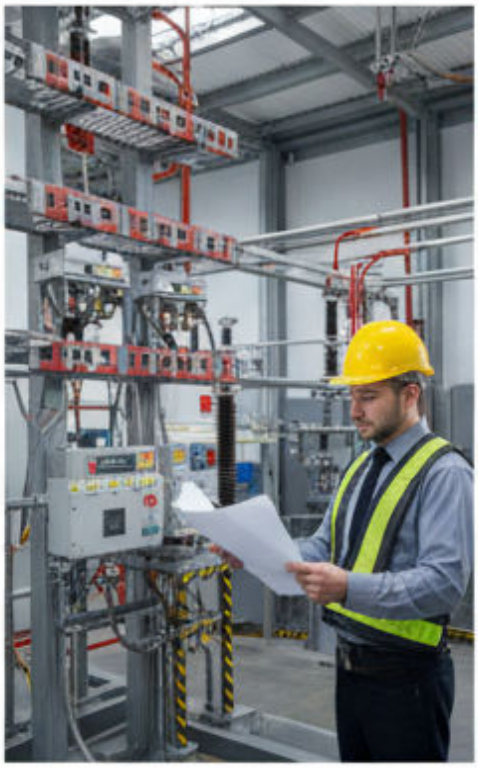


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PROGRAMME DESCRIPTION

ELECTRICAL Design & Drafting for the Construction Industry

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This program introduces the full range of ELECTRICAL Systems 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 ELECTRICAL 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

Electrical Engineers / Designers / Draftsmen who are responsible for design, drafting, estimation, and installation planning of Electrical Systems for Buildings and Facilities.

MEP Engineers/ Managers including Electrical, Engineers who wish to understand/ supervise Electro-Mechanical Projects

Electrical Engineers at entry or senior level, who wish to streamline their existing knowledge to make a career in Electrical Engineering for Building System.

WHAT YOU WILL LEARN

Understand how ELECTRICAL systems work, and gain expertise in designing and drafting professional ELECTRICAL layouts.

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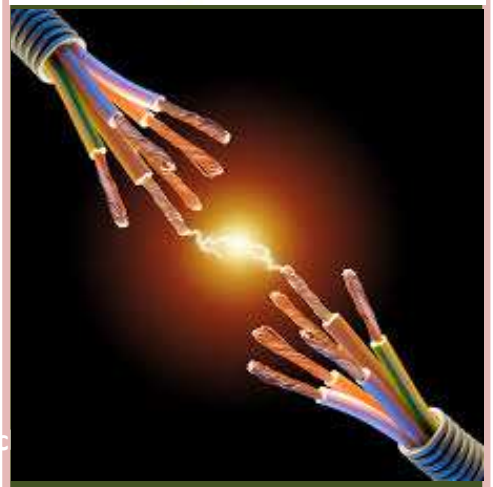
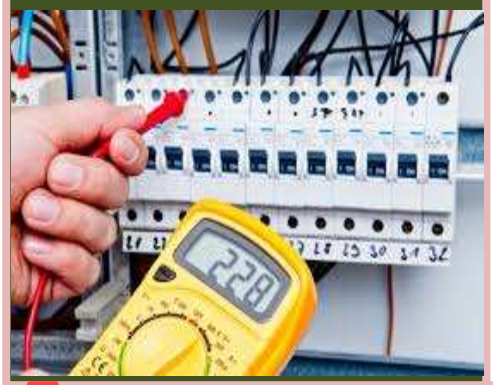


Master Electrical System Design with real-time knowledge of standards, design, drafting, and electrical drawing preparation

"Complete AUTO CAD Training"



MODULE 01 – ELECTRICAL BASICS

- Introduction to Electrical
- Electrical Basics
- Measuring Instruments
- Electricity-Generation, Transmission & Distribution
- Electrical Equipment's-Transformer, Motor, Generator, UPS etc.
- Codes & Standards – NBC, BS, NEC, DEWA.

MODULE 02 – ELECTRICAL ACESSORIES

- Switches-one way, 2 way, 3 way, etc
- Sockets or Receptacle
- Ring circuit
- Wiring connections in residential & commercial projects
- Panel wiring connections

MODULE 03 – LIGHTING SYSTEM

- Introduction
- Types of Light Fixtures
- LUX or Foot Candle measurement
- LUX Level as per Project
- Light Fixtures calculation as per Standards
- Standard method of lighting placement in project
- Preparation of Light fixture schedule
- Light Fixture Selection Software's - DIALUX & DIALUX EVO.

MODULE 04 – LOAD CALCULATION & DISTRIBUTION

- Light Fixtures load calculation
- Fan load calculation
- HVAC load calculation
- Plumbing & Fire Fighting load calculation

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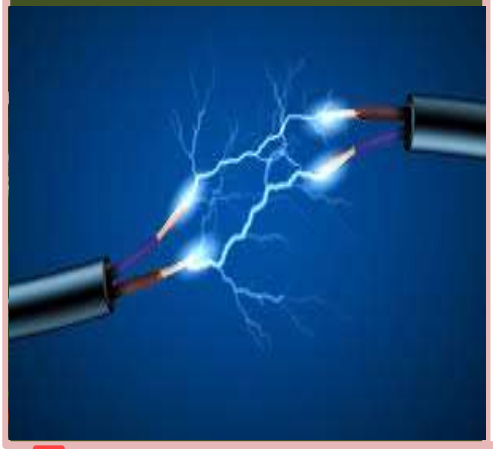

- Lift load calculation as per project requirement
- Preparation of load schedule
- Maximum Demand Load & Total load calculation
- Diversity Factor & its Standards
- Load distribution of Lighting & power
- Load distribution schedule – HVAC, Fire Fighting, common Loads, MDB, SMDB & FDB
- Load distribution schedule of Emergency devices- DG & UPS.

MODULE 05 – CABLES SELECTION & INSTALLATION

- Cables- armoured & un armoured cables
- Cable Insulation
- Cable type & construction features
- Cable selection
- Cable Routing
- Current rating of cables
- Cable size calculation for motors
- Voltage drop Calculation of Cables
- Application of cable gland & types
- Cable schedule Preparation
- Cable resistance & impedance values
- Cable Lug & its Applications
- Calculation of short circuit withstand capacity of cables

- Installation of cables
- Conduits – types & application
- Conduit selection
- Installation method of conduits
- Cable trays-types, installation procedure, different sizes of cable trays

- Fittings & Accessories of Cable tray
- Cable tray sizing calculation
- Cable tray Routing

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"Online & Class Room Training from Dubai International City"

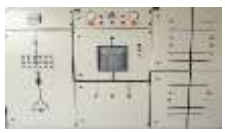
MODULE 06 – SWITCH GEAR & PROTECTION

- Introduction
- Types of Fault currents
- Importance of Breaker
- Types of circuit breakers – MCB, MCCB, ACB, VCB, SF6, ELCB or RCD

- Selection circuit breaker on Feeder current rating

- Short circuit calculation
- Installation standards of Circuit Breakers

- Disconnect switches & Isolators
- Isolator Size calculation
- Switch gear Application & types



- LT & HT panels
- ATS & COS panel
- MDB, SMDB, FDB

- MCC (Motor Control Centre) panel

- Bus bar & its function
- Bus bar sizing calculation
- Bus bar risers
- Bus bar wiring connection & its installation

MODULE 07 – ELECTTRICAL EQUIPMENTS & SELECTION

- Transformer & its Application
- Types of Transformers
- Transformer sizing calculation based on project load

- Installation standards of Transformer
- Transformer placement in the project

- Generator & its Application
- Types of Generators

- Generator sizing calculation
- Wiring connections of Generator

- UPS & its application
- Types of UPS

- Wiring connections of UPS

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- Battery Sizing calculation
- Capacitor bank function
- Capacitor bank sizing calculation

MODULE 08 – EARTHING SYSTEM

- Introduction to Earthing
- Types of Earthing
- Earth continuity conductor
- Main earth terminal
- Earthing strip
- Earth Resistance calculation
- Types of Earthing rod & its sizes
- Earth pit placement in the project
- UPS designing for emergency loads
- Lighting Arrestors

MODULE 09 – EXTRA LOW VOLTAGE SYSTEM


- CCTV
- Fire Alarm system
- Access Control System
- Power supply designing for low current system

MODULE 10 – ELECTRICAL SOFTWARES

- DIALUX
- DIALUX EVO
- Current Analyzer
- MS – Excel
- Transformer calculation
- Generator calculation
- UPS & Battery Calculation
- Load distribution Schedule
- Master Converter

MODULE 11 – ELECTRICAL DRAFTING AUTOCAD

- Introduction to Auto cad
- Basic drawing commands
- Modify commands

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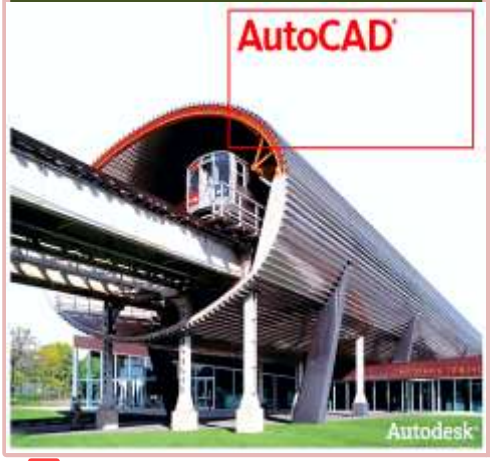

- Layers & block
- Lighting layout
- Power layout
- Load distribution schedule
- Single line Drawing
- Schematic Drawing
- Cable tray drawing
- Section drawing
- Earthing drawing
- Equipment placement – transformer, generator, UPS, DB, etc.
- Coordination drawing
- Shop Drawings
- As built drawing
- International drawings
- Model Management
- Layout Management

MODULE 12 – SITE INSTALLATION

- Electrical Work Flow Procedure
- Site Installation Departments
- Site Installation Procedures
- 3M's – Material, Machinery, Manpower
- Installation Task
- Installation of Electrical equipment's – Transformer, generator, UPS, etc.
- Installation of Switch gears
- Installation of Cables, Conduit & Cable Tray
- Safety Requirement - PPE
- Project Handover – O & M

MODULE 13 – QUANTITY SURVEY

- Bill of Quantity - BOQ
- Material Submittals - MS
- Schedules
- EquipmentTechnical Schedules
- Estimation & Costing
- Tracking List

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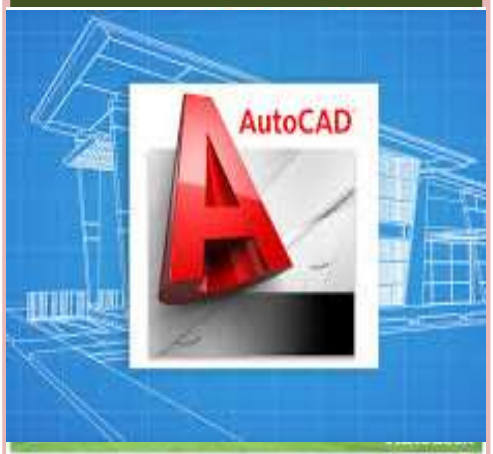

MODULE 14 – QA/QC

- Introduction to QA/QC
- Short circuit test for breaker
- Polarity test
- Circuit continuity test
- Megger test
- Breaker testing
- Pre-Inspections of installations
- Request for Inspection - RFI
- Inspection procedures and techniques
- Inspection tools and equipment
- Quality control of work as per specification
- Testing & Commissioning

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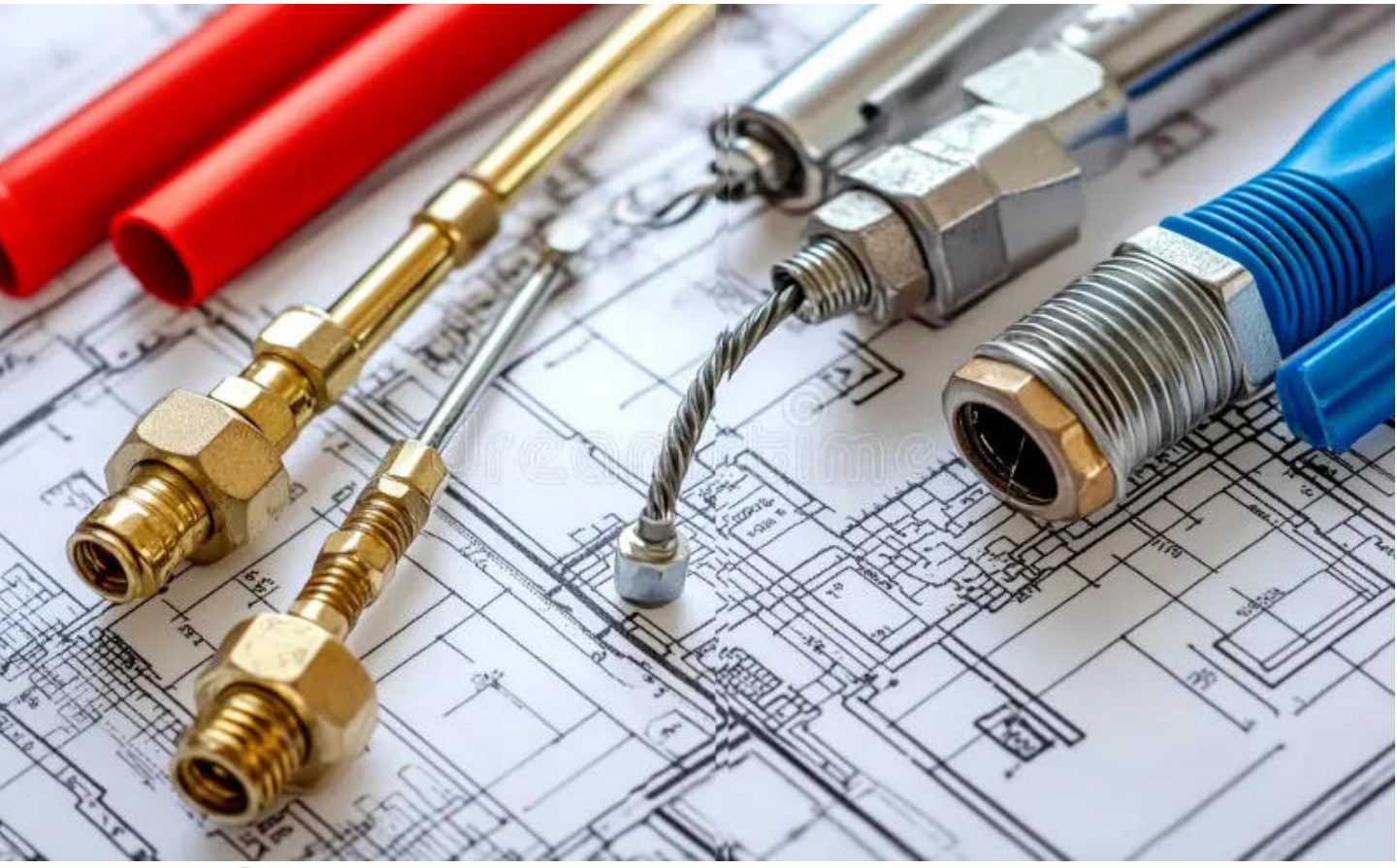

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WHAT YOU WILL LEARN

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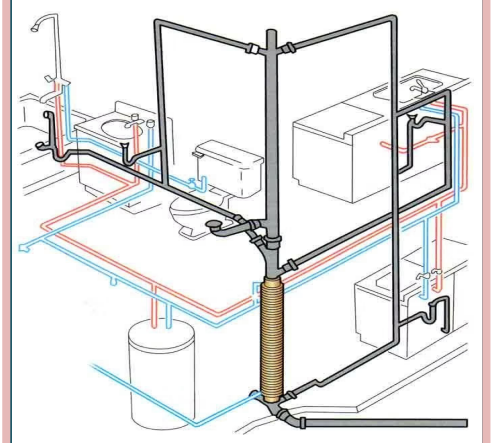

MODULE 01 – PLUMBING INTRODUCTION

- Plumbing Introduction
- Plumbing - Codes & Standards
- Fundamentals of Plumbing System

Plumbing System

- Water Supply System
- Sanitary Drainage System
- Storm Drainage System

MODULE 02 – WATER SUPPLY SYSTEM

Introduction to Water Supply System

- Fundamental of Water Supply System
- Sources of Water
- Potable Water Standard
- Water Storage & Consumption
- Domestic Hot and Cold Water Supply
- Water Supply – Commercial & Industrial
- Water Supply Fixtures
- Supply Piping System
- Materials for Piping & Fitting
- Water Supply Controlling Equipment

Water Supply System Designing

- Fixture Load as per Codes & Standard
- Hot & Cold Water load
- Water Supply Fixture Unit- WSFU
- Fixture Water Requirement- GPM
- Hot & Cold Water Pipe Size
- Water Distribution – Pipe Routing
- Pipe Joining methods
- Water Supply Demand Calculation
- Storage Tank Types
- Tank Size Calculation
- Selection of Booster Pump

KG MECH
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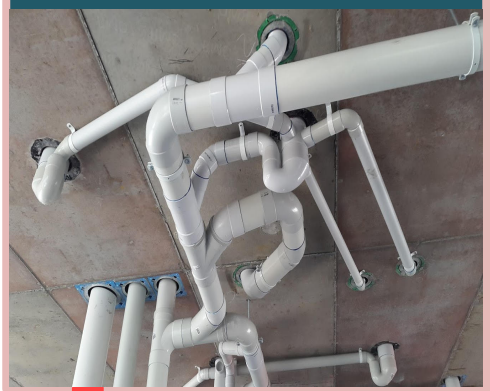
Achieve complete understanding of Plumbing System components, international standards, Design Calculation, drafting standards, Procedures & Plumbing drawings.

"Complete Shop Drawing Preparation along with BOQ"



MODULE 03 – DRAINAGE SYSTEM

Introduction to Drainage System

- Fundamental of Drainage System
- Sanitary Drainage System – Soil Line
- Waste Water Drainage System – Waste Line
- Traps used for drainage system
- Stacks in Drainage System – Waste, Soil & Vent Stack
- Building Cleanout
- Drainage Pipe System
- Pipe Material for drainage
- Introduction to Sewerage line

Drainage System Designing

- Trap Sizing as per Codes & Standards
- Selection of Trap for fixtures
- Drainage System Pipe designing
- Pipe Sizing as per Codes & Standards
- Drainage System pipe routing
- Waste water drainage piping routing
- Vent pipe designing
- Drainage System Pipe Joining methods
- Selection of Drainage pipe fittings
- Main Hole sizing

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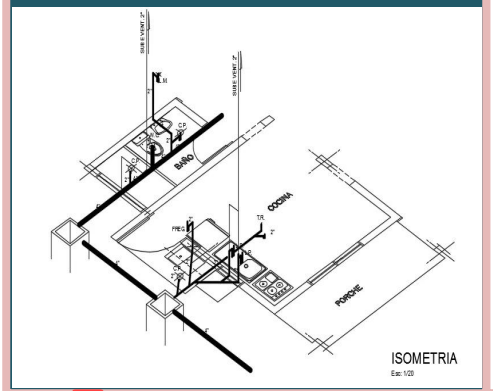
Achieve complete understanding of Plumbing **System components, international standards, Design Calculation, drafting standards, Procedures &** Plumbing **drawings.**

"Online & Class Room Training"



MODULE 05 – PLUMBING SYSTEM EQUIPMENTS

- Plumbing Fixtures
- Booster Pumps
- Submersible Pumps
- Boiler and Gaesser
- Water Storage Tanks




MODULE 06 – PLUMBING DRAFTING AUTOCAD

- Water Supply Load Drawing
- WS - Single Line Drawing
- WS – Double Line Drawing
- Section & Schematic of Water Supply System
- Tank Detail Drawing
- Pump Room Detail Drawings
- Drainage Single Line Drawing
- Drainage Double Line Drawing
- Section & Schematic of Drainage System
- Invert Level of drainage pipe
- Piping Slope
- Scale Setting & Plotting
- Co-Ordination Drawing
- As-Built Drawing
- Model Management
- Layout Management
- Equipment Schedules
- International Drawings

SANTOSH NAGAR | MASAB TANK

KG MECH
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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






KG MECH
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Contact Us

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We have Expert Faculties in this three Engineering Fields:

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Upto 08yrs Exp ELECTRICAL ENGINEERS

Upto 07yrs Exp CIVIL ENGINEERS