

Eligibility : Degree/ Diploma in Mechanical/Production/Electrical Engg.

SYLLABUS -

Content for HVAC system

- HVAC basics with general concept of HVAC.
- Various Indian and international codes for HVAC system design
- Classification of Air-Conditioning System.
- Heat load calculation & psychrometric chart reading
- Air distribution system & ducting system for commercial AC system
- Centralized air conditioning systems for commercial buildings
- Various chilled water system & their selection and working.
- Split/ WINDOW AC for residential and commercial HVAC .
- Latest technology VRF air conditioning and heat pump system
- Kitchen ventilation system basics & design.
- Exhaust and fresh air to maintain indoor air quality in the building.
- How to implement ECBC in HVAC system and for green building project
- Preparation of BOQ and DBR for HVAC project.
- Class room project work for commercial HVAC system design.

Content for Electrical services ...

- Basics of Electricity and how electricity is generated
- Various national and international codes for Electrical system
- Electrical formulas, definitions & rules
- Generation, Transmission & distribution of electricity.
- Various types of electricity generating power plants
- Electrical equipment and its application used in the installation
- Transformers & various installation practices.
- Diesel generator and various installation practices.
- Various type of protection devices and circuit breakers
- Importance of capacitors in power factor improvement along with harmonic control .
- Several types of cables and installation practices along with cable schedule preparation.
- Electrical motors and various application of electrical motors.
- Electrical installation in residential buildings & commercial buildings.
- Industrial electrical installation for process plants and engineering industry
- Various types of lighting and design of lighting for commercial as well as industrial projects.
- Emergency Diesel generator systems, UPS & inverters.
- Protection from lightning & various types of electrical earthing system.
- Electrical load calculations, transformer/ DG set sizing.
- Electrical requirement for hazardous locations.
- Preparation of power and lighting layout and electrical panel design.
- Preparation of BOQ and DBR for electrical design project.
- Class room project work for commercial building electrical system design.

Plumbing Services content

- Fundamentals of plumbing system & various codes.
- Water distribution system and its working
- Details for fixtures used in plumbing installation
- Water requirement for several types of buildings as per NBC
- Design of water distribution system for buildings.
- Plumbing fixtures for residential as well as commercial buildings.
- Water Demand & storage calculations.
- Water distribution through overhead tanks.
- Water distribution through underground system.

- Waste water sewage system and water recycling using STP
- Hot water system through electrical heating as well as solar hot water system
- various Environmental law regarding water pollution.
- Quality of drinking water & various water treatment system.
- Preparation of BOQ and DBR for plumbing project
- Classroom project work for commercial building plumbing system design.

Fire Alarm & protection system

- Basics of Fire Alarm & Protection System.
- Applicable codes for Fire system design in INDIA.
- Various types of fire protection system & its design basics
- Sprinkler system design and piping calculation.
- Fire hydrant system design & water storage calculation for fire protection.
- Several types of Fire Alarm systems and their use.
- Smoke detector design, installation & maintenance.
- Fire alarm system cabling work and panel installation.
- Fire norms for new project construction.
- Design of fire Alarm & protection system for commercial buildings.
- Importance of Fire training in several types of buildings
- How to prevent fire at the work place.
- Preparation of BOQ and DBR for Fire system design project
- Classroom project work for commercial building Fire system design

BMS System

- What is BMS System
- BMS System importance in MEP services.
- Working of the BMS System
- Operational Consideration & Maintenance.
- Energy Management through BMS system

Solar

- Basic of solar PV power system
- Design and Installation of grid & off grid system
- Solar Power System component selection.
- Government initiatives in INDIA for solar power system.

SITE VISIT WILL BE ARRANGED AT INDUSTRIAL PLANT.

Note: SIT reserves right to change the Training Content at any time as per the current job requirement.

After successful completion of Training Program, you will have opportunity to work in EPC sector as:

MEP Design Engineer
Inspection and Testing Engineer
MEP consultant.

Construction Engineer
Site Engineer
Installation & Commissioning Engineer

MEP Project Engineer
Erection Engineer
Maintenance & Operation Engineer

Together We Will Bring New Dimensions To Engineering Industry

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