



# SM TECHNO

## Training Services

**WWW**  
WWW.SMTMEP.COM

> SM Techno MEP Training Services is an ISO 9001: 2008 certified organization, providing a world class leading technical training in Mechanical, Civil & Electrical engineering disciplines to meet the requirements of skilled professionals in the field of M.E.P.

> We provide online courses, interactive classroom classes, video lectures, and providing students with the flexibility to learn at their own pace. and making their courses accessible to individuals from all over the world.



**We offer Classroom, Online & Video courses**

**H VAC**

**FIRE FIGHTING**

**ELECTRICAL**

**REVIT MEP**

**P LUMBING**

**REVIT ARCHITECTURE**

**Contact Us**



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 **ELECTRICAL**  
DESIGNING & DRAFTING

## ELECTRICAL DESIGNING & DRAFTING SYLLABUS

### SOFTWARES

- AutoCAD
- ETAP 12.6.0 SOFTWARE
- DiaLUX (4.13 VERSION)

### Course Standards



WhatsApp

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## HIGHLIGHTS

- LIVE ONLINE TRAINING
- CLASSROOM TRAINING
- VIDEO COURSES
- GULF EXPERIENCE FACULTY
- DIGITAL CLASSROOM
- BASIC TO ADVANCE LEVEL
- CONCEPT BASED TRAINING
- SOFTWARE CALCULATION
- INTERACTIVE SESSIONS
- UPDATED SYLLABUS

### PROJECTS

1. G+6 Floor Building Project
2. International School Building Project



## **MODULE 01: DESIGNING**

### **Chapter: 1**

1. Electrical Designing
2. Basics of Electrical Engineering
3. Types of Loads
4. Types of Electricity

### **Chapter 2**

1. Basic Formulas
2. Find out Current (I)
3. Find out Power kW & kVA.
4. Thumb rule for calculation for current

### **Chapter 3**

1. Abbreviations
2. Codes & Standards
3. Lux Level Standards
4. Load details for different electrical equipments
5. Saving electrical energy

### **Chapter 4**

1. Illumination Design
2. Classification of lighting design
3. Air Conditioning System

### **Chapter 5**

1. Introduction Of Cables
2. Types of cable insulation
3. Thumb Rule For Cable Size.

### **Chapter 6**

1. Introduction to Circuit Breakers
2. Types of circuit breaker
3. Specifications of circuit breaker
4. Calculation of Circuit Breaker size

## Chapter 7

1. Introduction to Capacitor Bank
2. Advantages of improved power factor
3. Capacitor bank sizing
4. Electrical Motors

## Chapter 8

1. Electrical Designing Rules & Regulation
2. Conversion from feet to meters
3. Lighting Designing
4. Raw Power Designing
5. Air Condition Designing
6. Load Balancing Sheet

## Chapter 9

1. Introduction to Transformer
2. Parts of Transformer
3. Transformer cooling techniques
4. Transformer sizing

## Chapter 10

1. Introduction to Diesel Generator
2. Different types of generator
3. Installation factors of generators
4. Diesel Generator set sizing

## Chapter 11

1. Introduction to Uninterruptable Power Supplies
2. UPS sizing
3. Battery sizing

## Chapter 12

1. Cable Sizing
2. Voltage Drop Calculation

## Chapter 13

1. Short Circuit Calculation
2. Tripping Time of Circuit Breaker & Cable checking



## Chapter 14

1. Cable Tray
2. Earthing
3. Bus bar
4. Lightning Arrestors

## Chapter 15

1. CCTV
2. PAS

## Chapter 16

1. ETAP
2. Load Flow Analysis
3. Short Circuit Analysis

## Chapter 17

1. Electrical Drafting
2. Electrical Legends & Symbols

## MODULE 02: DRAFTING

### Electrical Drafting

1. Electrical Drafting (AutoCAD) 2012/2021
2. Electrical Legends & Symbols
3. Lighting layout
4. Raw power Layout
5. Conduit Layout
6. Control & Circuit Wiring Layout
7. Single Line Diagram
8. Electrical Project Explanation & Exercises

## UPDATED TOPICS

1. Illumination Designing by using Dialux software
2. Selection & Sizing of the cable.
3. Voltage Drop & Short Circuit Calculation along with tripping time of circuit breaker
4. Sizing of Switch Gear Panel/Distribution Board
5. Raw Power & Standby power Designing
6. Low Current Designing which include CCTV Camera, Public Addressable System
7. Electrical Drafting - MEP Electrical



*"Education is the most powerful weapon which you can use to change your world."*

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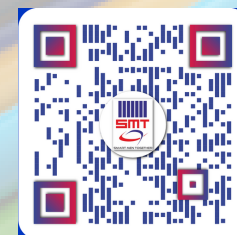


## Our Office:

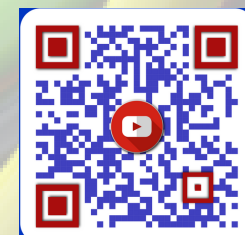
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WEBSITE



LOCATION



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