

# Electrical Engineering For Non Electricians

## OVERVIEW

The specially designed course offers easy understanding of the laws and elements governing electricity. Suitable for engineers from other fields as well as personnel from non engineering background.

## WHO SHOULD ATTEND?

Personnel who are involved in electrical works but who are non electrical engineers, i.e. mechanical engineers, civil engineers, executives and supervisors

## MODULE OBJECTIVES

- Introduction to The Principles of Electrical Energy
- Introduction to Elements of Electricity
- Introduction to Switchgears and Electrical Safety



**SBL CLAIMABLE**





# COURSE OUTLINE

## DAY – 1

### **Module 1:Electricity**

- 1.1 What is Electrical Power
- 1.2 A Little History
- 1.3 Source of Power
- 1.4 Types of Electrical Power

### **Module 2: Principles of Electricity**

- 2.1 Ohm'Law
- 2.2 Kirchoff Current Law
- 2.3 Kirchoff Voltage Law

### **Module 3: The Basic Elements**

- 3.1 Resistor
- 3.2 Inductor
- 3.3 Capacitance

### **Module 4: Electrical Power**

- 4.1 Basic Formula
- 4.2 Power Factor
- 4.3 Power Factor Correction

## DAY – 2

### **Module 5: Cables**

- 5.1 Basic
- 5.2 Types of Cables
- 5.3 Some Calculation Pertaining Cables

### **Module 6: Electrical Switchgears**

- 6.1 Types of Switchgears
- 6.2 The Functions of a Switchgear
- 6.3 Choosing the Right Switchgear

### **Module 7: Electrical Energy and Efficient Energy Management**

- 7.1 Understanding Energy Management
- 7.2 Understanding Your Electricity Bill
- 7.3 Tips on Efficient Energy Management

### **Module 8: Electrical Safety**

- 8.1 Some common safety procedures
- 8.2 Implementing Electrical Safety Procedures in Your Workplace

**If you have any enquiries, please contact:**  
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