

## INTRODUCTION

Electricity is an energy that is a vital part of any industrial setup. From an office to a boiler or any machinery, everything runs on electricity. Hence the knowledge of electrical engineering becomes imperative for successful utilization of electrical energy and operation of electrical equipment.

As a non-electrical engineer, you may want to broaden your perspective on different areas of electrical engineering, ensure that the gaps in your understanding of electrical aspects are filled, and thereby work seamlessly with electrical technicians/support personnel.

Keeping this in mind, IMTMA has planned this program is aimed at covering **Electrical engineering fundamentals for non-electrical engineers.**

## FOCUS AREAS

This program covers the important aspects of electrical engineering required for nonelectrical engineers to understand the domain.

- Basics of electricity, generation principles,
- Electric power and circuit fundamentals
- Voltage, current, resistance, energy – Units, laws, measuring techniques
- Power fundamentals, Electrical load fundamentals
- Major electrical equipment in Industry – AC machines, DC machines, Transformers, Generators, Relays, Diodes, Transistors, Rectifiers, Invertors, Batteries, Thyristors, Fuses, Earthing system, Semi-conductors
- Electrical Standards and codes
- Power factor and Load characteristics
- Electrical shock and electrical safety practices
- Various concepts of maintenance from Electrical perspective

## KEY TAKE AWAYS

At the end of the program, the participants shall be able to:

- Understand the underlying principles of electrical engineering
- Learn some important laws of electrical engineering
- Know different types of electrical systems, viz, single-phase and three-phase systems
- Apply the relevant electrical aspects learnt to your respective work areas
- Practice safe working methods on electrical systems

## PARTICIPATION FEE

**Rs. 6000/-**  
+18% GST

**IMTMA Members/ Micro Companies/ Individuals/  
Educational Institutions / Students/ IMTMA Non  
Members/ Others**

**USD 240/-**  
**Overseas Participants**

**Group Concession : 10% for 3 to 5 and 20% for 6 and more delegates being nominated from the same company**

## FACULTY

This program will be conducted by **Ms. Lakshmi Kumari.**

**Ms. K. LAKSHMI KUMARI** has done her BE in electronics and communication and Worked in HMT Machine Tools Limited, Bangalore for 36 years, in various levels from Engineer Trainee to DGM (D & D). She has involved in Design & Development of various SPMs, Conventional machines, CNC Turning machines, CNC Grinding machines, Horizontal and Vertical Machining centers, Flow Forming Lathe etc. Also Experienced in Reconditioning-Upgradation of Conventional Machines to CNC Machines. She has trained many New Engineers, Graduate Apprentice Trainees and Customers on Relay Logic design, Introduction to CNC system and drives and PLC programming

### For Registration Contact

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