

# 13. FUNDAMENTALS OF ELECTRICAL ENGINEERING

COURSE CODE : BE || 2 DAYS

This course introduces the fundamentals of electrical engineering and the flow of electricity in domestic and non-domestic installations. Participants will learn circuit analysis using Ohm's and Kirchhoff's laws, electrical installation design, specifications, protection, power concepts, basic electrical safety, and relevant Malaysian regulations (Electricity Act 1990 & Electricity Regulations 1994).

## COURSE CONTENT

- Basic concept of electricity
- The journey of electricity in power distribution system
- How the electricity is generated
- Ohm's Law & Kirchhoff Law
- Electrical circuit analysis
- Overview of generation, transmission & distribution system
- Understand AC & DC circuit
- Resistor, capacitor & inductor circuit
- Concept of power triangle & calculation involved
- Simple design, specification & protection electrical installation for domestic installation

## RECOMMENDED FOR

- Electrical Engineer Fresh Graduates
- Non-electrical engineer
- Wireman
- Electrical Facility Maintenance Supervisor
- Electrical Technician / Supervisor