



Electrical Services Overview

The course is set over 1 day with sessions morning and afternoon.
Timings will be flexible, depending on progress.

Day 1

10:00

Session 1:

- Introduction
- Principles of electricity and electrical short circuits - (electric shocks)
- Methods of protection and electrical safety to people
- Overview of short circuits, earth faults & selectivity between devices.
- Overview of the Key Electricity at Work Regulations and the IEE Wiring Regulations - BS 7671

11:30

Coffee / comfort break (15 mins)

11:45

Session 2:

- Generators & Uninterruptible Supplies
- Use of generators & uninterruptible power supply systems (UPS)

13:00

Lunch (30 mins)

13:30

Session 3:

- Different types of cabling for Sub-Main Distribution, Lighting, Small Power and Fire Alarm systems
- Lighting principles and different types
- Emergency lighting principles
- Simple lighting circuits and wiring diagrams
- Fire Alarm Principles

14:45

Coffee / comfort break (15 mins)

15:00

Session 4:

- Different Wiring Systems & Underfloor Busbar Systems
- Simple power circuits and wiring diagrams
- Ring mains and radial circuits, their uses & application
- Fuses & Circuit Breakers
- What influences the sizing of conductors to ensure safety and reliability
- Simple cable sizing.
- Inspection and Testing (I&T)



Book online now