Electrical Services Explained – 3 Days

Agenda

DAY 1
09:15   Arrival / coffee / tea
09:30   Session 1
    • Introduction
    • Primary generation & transmission
11:00   Coffee / tea break (15 mins)
11:15   Session 2
    • High Voltage Distribution & Switchgear
    • Transformers
    • Substation arrangements
13:00   Lunch (60 mins)
14:00   Session 3:
    • Generators & Uninterruptible Supplies
    • Low Voltage Distribution
    • Single and Three Phase Circuits
    • Assessment of Maximum Demand and Diversity
15:15   Coffee / tea break (15 mins)
15:30   Session 4
    • Domestic Supplies
    • Commercial & Industrial supplies
    • Metering & Tariffs
    • Types of Low Voltage Switchgear
16.00 – 16:30   Q & A

For more information about this course contact the training team:

training@cibse.org | cibse.org/training | +44 (0)20 8772 3660
Day 2

09:15  Arrival / coffee / tea

9:30  Session 1:
  - Dangers of Electricity
  - Assessments of Overloads,
  - Overview of Short Circuits

11:00  Coffee / tea break (15 mins)

11:15  Session 2:
  - Overview of Earth Faults
  - Differences between Direct & Indirect Contact
  - Physiological Effect of Electric Shock

13:00  Lunch (60 mins)

14:00  Session 3:
  - Different Earthing arrangements
  - Fuses & Circuit Breakers Applications

14:15  Coffee / tea break (15 mins)

15:30  Session 4
  - Types of Final Circuits
  - Motors, starters & overloads
  - Modern Wiring Systems & Containment
  - Matching wiring systems to the building
  - Cabling for fire & emergency lighting systems

16.00 – 16:30  Q & A

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Day 3

09:15  Arrival / coffee / tea

9:30  Session 1:
- Different lighting systems & lamp types
- Lighting Systems Control
- Lighting Circuits and switching arrangements

11:00  Coffee / tea break (15 mins)

11:15  Session 2:
- Differences between the Ring Main and Radial Power circuits
- Cable Selection Considerations
- Simple Cable Sizing Exercise
- Introduction to Regulations

13:00  Lunch (60 mins)

14:00  Session 3:
- Overview of the Electricity at Work Regulations
- Overview of the IET Wiring Regulations - BS 7671 (18th Edition)
- Inspection & Testing

15:15  Coffee / tea break (15 mins)

15:30  Session 4:
- Certification & Reporting
- PAT Testing
- A case study of the design and installation of a small electrical installation
- Course Summary

16.00 – 16:30  Q & A

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