

## **HV/LV SWITCHING PROCEDURES & ASSESSMENT COURSE**

### **COURSE**

To provide theoretical training and practical assessment in the use of HV and LV distribution equipment, including the implementation of safe systems of electrical work on high voltage plant and switchgear. The training will enable successful candidates to undertake Senior Authorised Electrical Persons assessments subsequent to their return to their respective work areas.

### **TARGET AUDIENCE**

Engineering Personnel involved with power distribution networks and the use of site operated switchgear, in an onshore or offshore installation.

### **COURSE DURATION**

5-days

50% Practical

50% Theoretical

### **COURSE CONTENT**

- Safety regulations HSAWA 1974 & Electricity at Work Regulations SI1993
  - Electric shock effects
  - Electrical safety and testing
  - Switchgear types and operation
  - Generator operation and capability diagrams
  - Synchronization
  - Power systems management
  - Earthing arrangements & procedures
  - Operating principles of: -
    - Air break
    - Oil break
    - SF6 break
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- Distribution practical exercises:
- Power system operation from multiple generator sets
- Parallel operation of the power distribution system and use of synchronizing aids Network switching, load sharing and load shedding

**DELIVERY**

Classroom and power switching simulator network

**QUALIFICATIONS**

City & Guilds certificate may be available on completion of the following assessments: -

D001 HV/LV Isolation assessment

D002 HV/LV Isolation assessment

D003 Knowledge assessment

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