



## **HV Practical Switching**

**Duration:** 4 Days

**Format:** Practical training with worked examples and case studies

**Assessment:** Practical Assessment (Pass/ Fail)

**Course Handout Provided**

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### **Course Overview**

This 4-day training course is designed to develop delegate competence in the practical application of Electrical and Mechanical Safety Rules and supporting documentation, ensuring safe, compliant switching, isolation, earthing, and testing of high voltage apparatus.

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### **Course Objectives**

By the end of this course, delegates will be able to:

#### Safety & Access

- Demonstrate correct switch room access procedures and identify typical hazards in substations and HV switch rooms.
- Apply relevant UK HV Safety Rules and company-specific requirements.

#### HV Switching & Earthing

- Carry out HV switching procedures in line with authorised instructions.
- Apply HV earthing procedures, including operation of fixed primary earths and use of portable earths.
- Correctly perform apparatus isolation and testing for dead using approved methods.

#### Documentation & Communication

- Create, issue, and receive HV Switching Instructions and Earthing Schedules using correct terminology.
- Produce, issue, and clear Permits for Work (PFW) and Sanctions for Test (SFT).
- Correctly issue and receive RISSPs (Record of Inter-System Safety Precautions).

#### Practical Competence

- Perform practical HV switching and earthing operations on HV Apparatus (switchgear, transformers, feeders).
  - Test and diagnose HV apparatus safely and accurately.
  - Demonstrate discipline, methodical working, and clear communication during live switching exercises
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## Course Schedule (Summary)

### Day 1 – HV Switching and Earthing

- Switch Room/ Sub-Station Access
- HV Switching Protocols
- HV Circuit Familiarisation
- HV Earthing
- Creating Switching Schedule

### Day 2 – Creating HV Safety Documents

- Permit for Work, Sanction For Test.
- Record of Inter-System Safety Precautions (RISSP)
- Practical Exercises – SITED

### Day 3 – HV Testing

- HV Testing of Cables
- Cable Spiking
- HV Testing of Motors and Generators
- Practical Exercises – HV Testing

### Day 4 – Practical Application & Assessment

- Practical Assessment - Applying the Safety Rules to HV Scenario

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## Who Should Attend

- Electrical engineers, supervisors, and technicians who are required to carry out or supervise HV switching and earthing operations.
- Personnel seeking appointment or re-appointment as an Authorised Person (AP) or Senior Authorised Person (SAP) under company Electrical Safety Rules.
- Those responsible for the operation, isolation, and earthing of high voltage apparatus in substations, switch rooms, and industrial HV networks.

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For questions or follow-up, please contact:

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