Safety Rules Module 3 – High Voltage

Duration: 4 Days
Format: Classroom training with worked examples and case studies
Assessment: Closed-book exam (60 questions, 70% pass mark required)
Course Handout

Course Overview

The aim of this 4-day Safety Rules Module 3 course is to provide delegates with comprehensive knowledge and understanding of the Electrical and Mechanical Safety Rules as they apply to High Voltage (HV) systems.

The course is designed to build on Modules 1 and 2, focusing specifically on the safe management, operation, isolation and testing of HV systems. Delegates will learn how to prepare and apply HV Safety Documentation, carry out HV switching operations, and manage associated hazards through approved procedures.

Course Objectives

By the end of the course, delegates will have developed knowledge and competence in:

- The Electrical and Mechanical Safety Rules and their application to HV systems.
- Preparation and execution of HV Switching Instructions.
- Routine, non-routine, and emergency switching operations.
- Safe methods for testing, isolating, and earthing HV systems.
- Preparation of Earthing Schedules and the use of Approved Voltage Measuring Devices.
- Procedures for HV cable systems, including spiking, identification, and proving dead.
- Electrical testing of HV systems, including generators, transformers, and busbars.
- The RISSP procedure and responsibilities of the Control Person.
- UK regulations, legislation, and procedures relating to HV operations.
- Applying knowledge through practical case studies and worked examples.

Assessment and Certification

Delegates will be assessed through a **closed-book examination** at the end of the course:

- **60 questions** (covering Plant, LV, and Safety Rules application).
- **Pass mark: 70%.**

Course Schedule (Summary)

The course runs over four days, combining:

- Classroom instruction.
- Worked examples and scenario-based exercises.
- Practical demonstrations and case studies.
- Daily Q&A and feedback sessions.

Key Topics Include:

- HV Systems overview and SLD review.
- HV switching: routine, non-routine, and emergency.
- Earthing HV systems and earthing schedules.
- Cable systems, spiking, and metal-clad switchgear.
- HV testing, including generator and transformer testing.
- RISSP procedure and Control Person responsibilities.
- Preparation and issue of HV Switching Instructions.

Who Should Attend

This course is intended for prospective Senior Authorised Persons (SAPs**)** who require authorisation for work on HV systems.

It is also suitable for engineers, supervisors, and technical personnel who are expected to issue or receive HV Safety Documentation, perform HV switching, or oversee HV system operations.

Further Resources

- HSE Website: www.hse.gov.uk
- HSG85 PDF
- Course Content – Hand Out
- Rosa Engineering Definitions – Hand Out

For questions or follow-up, please contact:

info@rosaengineering.co.uk
01977 367119
www.rosaengineering.co.uk