

High Voltage

High Voltage - Introduction to the Safe Operation of High Voltage Power Systems (S1)

Length of course: 3 days

Course Locations: HETA Hull

The S1 course introduces the safe operation of high voltage power systems for non-electrical/electrical personnel who are required to enter high voltage switchrooms and perform limited switching operations. The delivery of this course includes both classroom theory and practical exercises. Upon completion, delegates will be assessed to a competency level suitable for an authorised person responsible for switching and issuing documents for work on single end circuits only.

Who should attend?

Electrical/non-electrical personnel with a basic level of electrical knowledge who are required to carry out restricted HV switching operations with limited safety document issuing responsibilities up to and including 15kV.

Course Aims

To introduce personnel to the concepts of electrical power systems, to enable them to enter substations/switch rooms, carry out restricted switching operations, monitor the performance and conditions of the system (including relay operation) in a safe and competent manner.

3 Days





High Voltage - Access to Electrical Substations & Switchrooms (S2)

Length of course: 1 day

Course Locations: HETA Hull

This course covers the safety requirements for working in the vicinity of high voltage electrical equipment. It highlights electrical hazards and the precautions necessary to avoid danger. It also covers the arrangement of equipment within substations and switchrooms in addition to safety procedures, understanding of key safes, multi hasp systems and steps to be taken in an emergency.

Who should attend?

Persons who would benefit from this course are those required to work in the vicinity of, but not on electrical power equipment. Electrical/non-electrical personnel with no previous experience of electrical power systems, who require restricted authorisation to allow access to areas containing high voltage electrical apparatus with a view to undertaking specific duties.

Course Aims

To gain an understanding of the safety requirements when entering substations and switch rooms so that personnel are able to avoid danger.

1 Day

High Voltage - The Safe Operations of High Voltage Power Systems (Full High Voltage Authorisation) (S4)

Length of course: 5 days

Course Locations: HETA Hull

This training programme requires a good foundation of electrical knowledge. It is designed to bring delegates up to a competency level suitable for a senior authorised person (SAP).

Who should attend?

Personnel who are to be responsible as a senior authorised person (SAP) for switching and issue of electrical safety documents. Delegates may find it beneficial to attend our S9 course as a pre-cursor to this course.

Course Aims

To provide an understanding of industrial high and low voltage power systems including statutory regulations, safe operation, protection and fault diagnosis on a wide range of power equipment. The course also enables delegates to perform HV switching operations on industrial HV networks up to and including 15kV to prepare them for HV authorisation in accordance with their companies' safety rules/regulations. This course is also available as a refresher course.

5 Days

High Voltage - Practical Introduction to the Safe Operations of High & Low Voltage Switchgear (S9)

Length of course: 3 days
Course Locations: HETA Hull

This course is designed specifically for individuals with little or no previous experience in high voltage switching. It focuses on the practical element of switching and is predominately workshop-based. This course may be undertaken as a precursor to the S4 or MAR4/OS4 full authorisation courses.

Who should attend?

Personnel who require hands-on experience of switching and issuing of safety documents on high and low voltage power systems up to and including 15kV, prior to undertaking future authorisation courses.

Course Aims

To enable delegates to familiarise themselves with operational protocols and potential physical constraints associated with high voltage power systems, prior to receiving full authorisation training such as our S4 or MAR4/OS4 courses.

3 Days

High Voltage - 33kV Upgrade Course (Indoor Equipment) (S10)

Length of course: 2 days
Course Locations: HETA Hull

This course is designed for personnel who have previous authorisation up to 15kV, who wish to extend their authorisation level to enable them to operate on (indoor) 33kV systems. The course focuses on the practical element of switching and is predominantly workshop based. This course should be undertaken as an augmentation to the S4 (or similar) full authorisation course.

Who should attend?

Personnel who are currently authorised to switch on high voltage systems up to and including 15kV, who wish to expand their authorisation level to enable them to carry out switching on indoor systems up to and including 33kV.

Course Aims

To enable delegates to enhance their current high voltage authorisation to a higher level and familiarise themselves with operational protocols and potential physical constraints associated with indoor 33kV power systems, following receipt of full authorisation training such as S4 (or similar) high voltage authorisation training.

2 Days



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Voltage Facility

High Voltage - Electrical Safety Awareness (E2)

Length of course: 3 days

Course Locations: HETA Hull

This course is designed to provide guidance on working safely on low voltage electrical equipment and systems (up to 1000V AC / 1500V DC) located within industrial environments. This course will assist employees and companies to reduce the risk of personal injury, due to electrocution and arc flash and also to help prevent damage to assets due to operator error.

Who should attend?

Electrical and non-electrical personnel requiring electrical safety awareness training to enable them to become aware of the hazards associated with the installation, maintenance and operation of low voltage electrical equipment.

Course Aims

To raise the level of safety awareness for persons working on, or in the vicinity of, electrical low voltage equipment. This course covers safety rules, regulations and guidelines related to current legislation.

