

# K1 SOLUTIONS TRAINING HIGH VOLTAGE 132/400KV APPRECIATION COURSE

## KEY INFORMATION

**Duration:** 2 days

**Location:** Lincoln Training Centre

**Cost:** £600 + VAT including certificate, PDF copy of the course notes, lunch and refreshments

**Audience:** Professionals involved in developing or operating connections into the National Transmission System through both National Grid Electricity Transmission (NGET) and the Electricity System Operator (ESO)

**Prerequisites:** None required

## COURSE OVERVIEW

This 2 day course provides essential insight into cross boundary operations and the equipment used, equipping participants with the knowledge to manage the processes from construction and commissioning through to operations.

This course provides structured guidance aligned with the national safety instructions (NSIs) and industry best practices. The course is suitable for those preparing to energise a project, coordinating cross boundary operations, or need a better understanding of the risks of higher voltages.

## WHAT YOU WILL LEARN

By the end of the course, participants will be able to:

- Understand the hazards of electricity and how risks may arise to understand how the controls measures have been applied
- Recognise behavioural factors that influence electrical operations and decision making
- Use the “golden safety rules” to produce switching schedules to create a safe zone of work. Practice switching operations in our substations using field/control room protocols as required TNCC and understand the role of the operation desk and safety desk
- Identify air insulated switchgear and its operational features
- Understand typical boundary points between user networks and NGET
- Recognise the different protection systems at transmission level
- Recognise sources and risks of impressed voltages (IV)
- Apply NESO National Safety Instructions, especially NSI 2, including primary and portable earthing
- Manage cross boundary safety through RISSP documentation, including issuing and receiving exercises
- Develop an IV management plan tailored to the user's substation
- Gain an understanding of the NESO / NGET compliance process

## ASSESSMENTS

There is one assessment for this course. Assessments are delivered to City & Guilds standards.

**1. Multiple Choice Exam** – Test the knowledge of the course materials

## EMPLOYER BENEFITS

This course is ideal for engineers, commissioning teams, and operational staff working on or considering a transmission level connection. It bridges the gap between technical understanding and procedural execution, ensuring safe collaboration across boundary interfaces.

## 2026 COURSE DATES

- 2nd - 3rd February
- 8th - 9th April
- 1st - 2nd June
- 10th - 11th August
- 3rd - 4th November

## CONTACT INFORMATION

Visit [www.k1-solutions.co.uk](http://www.k1-solutions.co.uk) for more information.

Email [training@k1-solutions.co.uk](mailto:training@k1-solutions.co.uk) to secure your place.