

HV Switchgear: Air Blast

Course Overview

A practical and theory based training course that will provide delegates with foundation knowledge on all types of Substation HV Switchgear Air Blast Circuit Breakers (ABCB).

Who is it for?

- Delegates whose job role involves interaction with high voltage (HV) air blast switchgear.
- Ideally delegates will have some knowledge of switchgear, though this is not essential.

Content

- Principles of Arc Extinction
- Air blast switchgear advantages and disadvantages, Operation, Construction, Types of ABCB (pressurised and non-pressurised), Ratings (voltage and current) and Maintenance (techniques and frequencies)
- Dismantle, maintain and reassembly of OBR 60 non pressurised heads.
- Timing exercise on ABCB Super Grid Transformer circuit.
- Visit to National Grid's Leicester Refurbishment Centre.

Learning Objectives

- Describe the Function and list the advantages/disadvantages of ABCB switchgear.
- Explain the basic principles of arc extinction for the switchgear.
- Identify the main component parts and explain their function.
- Explain the operation sequence of the switchgear.
- State the activities carried out during the maintenance.
- Apply and use special maintenance tools/rigs to the switchgear.
- Carry out the tests to the switchgear and interpret results with a conclusion to the suitability for the switchgear to be returned to service.
- State the safety precautions to be observed before and during the maintenance of the switchgear.

Course Length: Up to 10 days (based on requirements)