

Course Overview:

Our classroom training sessions and practical exercises cover HVDC system life cycle assessment & Refurbishment. Such training is necessary for new employees receiving new assignments, or experienced HVDC employees needing to refresh their skills. It is also essential for a company in the process of evaluating HVDC equipment and systems, because the right information will help guide a customer to the correct decisions.

Course Objective:

- You will be able to understand why High Voltage Direct Current (HVDC) is used in power grid applications, how AC power is converted to DC power, and vice versa. You will be able to recognize the advantages and limitations associated with HVDC and identify the two types of converter substations and their main components
- Learn to perform regular assessments to HVDC lifecycle
- Learn Maintenance and Operation techniques for HVDC refurbishment

Course Outline:

- HVDC basics
- HVDC control and protection system
- Basic fault finding and diagnostic tools
- HVDC system supervision
- Introduction to Thyristor/IGBT valves
- Circuit board replacement and software loading
- Security handling
- Thyristor/IGBT maintenance
- HVDC advantages & limitations
- Break-Even Point
- HVDC factors to consider
- HVDC Lifecycle
- HVDC Systems Refurbishment

Who Should Attend:

Electrical Engineers and Technicians

Training Language:

Eng

Training Methodology:

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies
- Workshops
- Simulation