

Course Overview:

This training course will present a comprehensive capsule of all the knowledge essential for the low , medium voltage and high voltage switchgear operations and walk the participants through the switchgear design process using a set of interlinked case studies. The training course focuses mainly on the operation and maintenance of distribution equipment namely transformers, circuit breakers, contactors, isolators and disconnectors (this will also include the auxiliary peripherals and control circuits).

Course Objective:

- Understanding all types of switches
- Operation principle of circuit breakers
- Maintenance of testing of switches
- Explaining Switchgear items and functions
- Describe Different forms of circuit breakers connections in electrical networks
- Describe Forming different types of circuit breakers
- Identifying Automatic operation consideration of circuit breakers and prevent faults in circuits
- Explaining Modes of uses stages in circuits and the effect of the short circuits
- Explaining Modes of Arc extinction by circuit breakers
- Explaining Modes of standard tests in circuit breaker
- Explaining Mobile measuring and test equipment of circuit breakers (Dabble)
- Complying with Measuring equipment of constant resistance of connectors

Course Outline:

- Definitions, Construction And Jobs Of Switch Gear Items
- Operation And Consideration Of Switch Gear
- Circuit breakers connections
- Different Forms And Construction Of Circuit Breakers
- Automatic Operation Consideration Of Circuit Breaker
- Modes Of Arc Extinction In A.C Circuit Breaker
- Circuit Breaker Various Tests
- Dabble Circuit Breaker Tests Equipment
- Maintenance strategies
- Switchgear numbering and nomenclature
- Switchgear mechanical and electrical interlocking
- Circuit breakers, auto reclosers, disconnectors and sectionalisers operations
- Earth switches construction and applications
- Switchgear symbols on single-line diagrams

Who Should Attend:

- Electricians
- Electrical supervisors
- Plant electricians
- Operations & maintenance engineers, supervisors & technicians
- Maintenance technicians

Training Language:

English

Training Methodology:

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