Course description

INTCV189

Circuit Breakers, Instrument Transformers, Surge Arrestors and Power Transformers - New Joinees

Course goal
The goal of the course is to introduce the New Joinees from Power Utilities, Power Generation, transmission companies & industries and Consultants responsible for engineering, commissioning, operation and Maintenance of substations to various equipments used in substation.

Learning objectives
Upon completion of this course, students will be able to:
- Identify the critical components of the Circuit Breakers, CT, CVTs, Surge arrestors and Power Transformer
- Understand the criticality of the equipment in Power System and define the time required to rectify the problems in above equipments
- Rectify the minor problems in the equipments

Participant profile
New Joinee’s from Power Utilities, Power Generation, transmission companies & industries

Prerequisites
Degree or diploma in engineering, basic knowledge of power system

Topics
- **Circuit Breakers**
  - Construction & operation
  - Components – Interrupter, operating mechanism
  - Control schematics
  - Testing practices & care
  - Maintenance & troubleshooting
- **Instrument Transformers**
  - Construction and operation
  - Components – Primary, secondary, EMR FR circuit
  - Testing practices & care
  - Maintenance & troubleshooting
- **Surge Arrestors**
  - Construction and operation
  - Components
  - Testing practices & care
  - Maintenance & troubleshooting
- **Power Transformers**
  - Construction & operation
  - Transformer application
  - Name plate parameter identification
  - Transformer accessories
  - Site care, testing
  - Maintenance and troubleshooting

Course type and methods
This is an instructor led seminar with extensive practical exercises at demonstration room, switchyard and manufacturing facilities. The language of the course is English. This course gives about 80% time for demonstration and practical exercise.

Course duration
The duration of the course is three days.