

**MODULE : O&M 2**

**OPERATION AND MAINTENANCE OF SWITCHGEAR**

**COURSE DESCRIPTION:**

**Introduction**

Classification based on voltage and location; Components; Types of Circuit Breakers (Air, MOCB, SF6 and Vacuum); Rating specifications and their practical meanings, Break current, Make current; Reading of Power and Control diagram of Switchgears.

**Testing**

Routine maintenance test; Visual and mechanical inspection; Breaker testing, IR, PI in open and closed status, High-Pot, Contact resistance measurement, Time travel analysis, Thermo graphic survey of joints; C.T. testing, IR, Ratio checks, Saturation characteristics, Secondary winding resistance; PT testing, IR, Ratio checks; Protective relays, functional operation.