

Course Overview:

Complexity of maintenance emerges from the variability of Maintenance tasks, the impossibility of expecting most of the failures and hence the repair request, and the variety and the limitation of resources to be applied, due to the importance of Maintenance operations to any production or service plants Maintenance management received considerable and intensive research that the resulted in many procedures that are applicable for implementation everywhere. These techniques are either quantitative or qualitative and are converted with essential Maintenance concerns. Instances include organization of maintenance resources, failure analysis, maintenance cost estimation, spare parts classification and planning overhaul planning and management, documentation of failures and maintenance procedures, etc. in addition, today a wide range of computers software tools are commercially available for purposes of more effective planning and control of maintenance operations.

Course Objective:

- Identifying Principles Of Engineering Service Electrical Substation Equipment
- 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 and Standard Tests In Circuit Breaker
- Explaining Mobile Measuring And Test Equipment Of Circuit Breakers (Dabble)
- Complying With Measuring Equipment Of Constant Resistance Of Connectors
- How To Prepare The Reports Of The Technical State Of Circuit Breaker
- How To Test The Sf6 Isolating Gas

Course Outline:

- Introduction
- Engineering Service For Substation's Electrical Equipment
- Definitions, Construction And Jobs Of Switch Gear Items Setting Up A Pm Program
- Operation And Consideration Of Switch Gear
- Different Forms Of Substations And Different Forms And Construction Of Circuit Breakers
- Automatic Operation Consideration Of Circuit Breaker
- Relay's Types And Transient Currents
- Modes Of Arc Extinction In A.C Circuit Breaker
- Rated Characteristics. Of H.V. – A.C Circuit Breaker

Who Should Attend:

This course is intended for engineers and technicians from substation, distribution station, power utilities, transmission and maintenance in electricity companies. Participants need no specific requirements other than basic understanding of electrical equipment's in his work area to gain maximum.

Training Language:

EN / AR

Training Methodology:

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