

Course Overview:

Discussing power system electrical Equipment Breakdown and failures .Also explaining Causes of breakdown and failures and their effect on the power system network. The course Discusses also methodology to avoid such breakdown and failures. Electrical Power system equipment discussed are : Power Transformers, Switchgears and Power Cables.

Course Objective:

- To develop the knowledge of the power system engineers and technicians to such level that they know the consequences of power system equipment failures on the power system network.
- To provide the attendees with the Proactive approach methodology to avoid catastrophic accident to the power system and personnel.

Course Outline:

- Introduction power system Equipment
- Power system Network
- Transformer Failures and their causes
- Overloading of power transformer and through faults
- Power transformer Insulation failures
- Catastrophic failures in adverse situation
- Effect of Power Transformers Failures and breakdown on the Power System
- Power transformer protection
- Types of switchgears
- Switchgear failures and explosions (statistics)
- Typical serious switchgear failures
- Potential and Current transformers (PTs,CTs)
- Switchgears operational problems and failures
- Circuit breaker breaking and making

Who Should Attend:

This course is intended for Power system Engineers, electric technicians in Electric utilities, Petrochemical industries and Factories.

Training Language:

Eng

Training Methodology:

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