

Course Overview:

The objective of this seminar is to identify commissioning, testing and commissioning for power transformer, generator, synchronous machines, scada system and describes the precautions that are necessary to perform electrical testing jobs safely.

Course Objective:

Participants will have:

- A better understanding of commissioning procedures
- A better understanding of troubleshooting procedures
- An improved capability in the use of test equipment
- A better understanding of failure modes and failure analysis
- A refreshed awareness of electrical safety concerns
- Developed a structured approach to electrical commissioning, testing and troubleshooting
- Been given methods/solutions for various electrical problems
- Interacted and gained from shared experiences
- Examples and case studies to illustrate the material being discussed
- Technical material appropriate to the organisations represented

Course Outline:

- THE TECHNOLOGY OF ELECTRICAL EQUIPMENT
- POWER TRANSFORMER, TESTING, COMMISSIONING & STARTUP IN SUBSTATION AND POWER PLANTS
- CIRCUITS BREAKER, CONTACTORS AND METAL CLAD (H.V. AND L.V.)
- SYNCHRONOUS GENERATOR, OPERATION TESTING AND SYNCHRONIZATION WITH BUSBAR
- TESTING OF SYNCHRONOUS MACHINES
- 3 PHASE SHORT CIRCUIT
- PROTECTION AND AUTOMATION OF SYNCHRONOUS GENERATOR AND MOTOR SCADA
- TRIPPING AND INTERLOCKING SCHEME IN ELECTRICAL SUBSTATION

Who Should Attend:

This course is recommended for electrical technicians, supervisors and engineers involved with commissioning, testing & power plants.

Training Language:

EN / AR

Training Methodology:

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