

**Course Overview:**

The participants will acquire extensive basic knowledge of thermal power plants, safety requirements in a power plant, equipment details, operation and maintenance of a thermal power plant. They will learn to understand the process flow, various power plant schemes, protection and interlock systems, operation of the power plant.

**Course Objective:**

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**Course Outline:**

1. Conditions required for safe operation of disconnects and isolation switching
2. Conditions required for safe operation of ground switches
3. Conditions required for isolation grounding of distribution transformer
4. Conditions required for isolation of 13.8 kV bus metal clad switching.
5. Switching preparations for: Feeders 230 kV, 69 kV, 13.8 kV - open - test - rack out  
Transformer isolation H.V., L.V., P.T. Bus isolation (230, 69, 13.8 KV)
6. Conditions required for personnel safety during maintenance and inspection:  
Hazards with indoor open cubicles with droppers front and rear  
Regulations concerning open-visible break points  
BBC BSP 230 KV interlock schemes (69 KV)  
SST G/S interlock schemes  
Area G/S interlock schemes

**Who Should Attend:**

- Utility P&C Engineers
- System Integrators
- Maintenance Staff
- Consultants
- Substation Automation System Designers

**Training Language:**

EN / AR

**Training Methodology:**

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