Operation, maintenance and condition monitoring of switchyard equipments

Objectives
- Assess the condition of switchyard equipment’s.
- Avoid age related failure.
- Minimize cost of consequential failure of peripheral equipment.
- Minimize unavailability of power due to forced shutdown.
- Optimize resources to plan and operate the electric systems reliably and with the maximum economic benefit.

Audience
Personnel from Power Utilities, Power Generation, transmission companies & industries and Consultants responsible for engineering, commissioning, operation and Maintenance of substations.

Course topics

Circuit Breakers (HV & MV)
- Operation and construction.
- Interrupting principles.
- SF6 gas filling & handling.
- Manufacturing & testing.
- Inside the Breaker- Hands on practice, demo.
- Circuit breaker pole assembly.
- Circuit breaker operating mechanism assembly.
- Operation – Do’s & don’ts.
- Maintenance & troubleshooting.

Instrument Transformers
- Operating principles & construction.
- Operation – Do’s & Don’ts.
- Maintenance, troubleshooting & testing.
- Testing.
Power Transformer
- Introduction, basic about Transformers – Design aspects and insulation.
- Transformer accessories – breather, bushings, PRV, Buchholz, MOLG core & active part assembly, final assembly.
- Operation – Do’s & don’ts, commissioning.
- Maintenance and diagnostics.
- Testing.
- Case studies.

Condition Monitoring
- Concept of condition monitoring.
- Degradation of insulation.
- Significance of loss angle measurement & insulation resistance measurement.
- Recovery voltage measurement.
- Sweep frequency response – fundamentals, concept, analysis & measurement.
- Interpretation of results.
- Leakage current monitoring.
- Infrared image.
- Contact resistance measurement & DCRM.
- Oil testing.
- Demonstration of various diagnosis tests.

Date and Location
- Date:
  Call 1: February 10th – 14th
  Call 2: April 6th – 10th
  Call 3: August 17th – 21st
- Class time: 08h30 - 14h30
- Location:
  ABB Power Products & Systems India Ltd
  Maneja, Vadodara
  390013 - Gujarat
  India

Price
2.750 $ per person
Registration
Register here: madrid.abbuniversity@es.abb.com
Please register before
   Call 1: January 27th
   Call 2: March 23rd
   Call 3: August 3rd

Contact us
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For more information