

Moisture Determination and Dielectric Diagnostic at Power Transformers

Course Code: TR-B-6, Duration: 1 day

- Importance of moisture evaluation & Dangerous effects of moisture
- Various State of moisture in Transformer and Relative saturation of oil
- Temperature gradient of transformer and consideration of operating temp for moisture analysis
- Moisture contamination, distribution between cellulose and oil and equilibrium processes
- Measurement by Karl Fischer titration and equilibrium diagrams
- Measurement by online sensors
- Measurement by dielectric diagnostic methods
- Practical application of measurements
- Interpretation of results
- Theory about the dielectric response of insulation materials
- Assessment of moisture concentration as a basis for subsequent actions
- Low frequency heating technique for on-site drying of solid insulation
- Practical application and data analysis using the PDC+FDS method

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