




PD diagnostics on power transformers with the MPD series

 2 days

 English

 Cpdm02en

Enhance your knowledge on partial discharge testing on power transformers. Become familiar with advanced software features of the MPD system. Learn how to identify fault types and fault locations to assess the condition of your assets. Get to know advanced testing techniques in hands-on sessions on special training equipment.

Objectives

- ▶ Enhancing your knowledge on partial discharge on power transformers
- ▶ Performing measurements to determine the insulation condition and identify fault types and fault location
- ▶ Evaluating deterioration processes in power transformers by partial discharge measurements
- ▶ Monitoring the quality of the production process by performing measurements on assembled parts
- ▶ Applying partial discharge technology to design or redesign devices exposed to high voltage

Content

- ▶ Understanding the physics behind partial discharges
- ▶ Getting to know the advanced diagnostic features of the MPD system
- ▶ Performing partial discharge tests according to IEC 60270 and IEC 60073
- ▶ Non-conventional measurement techniques (e.g. UHF, inductive Sensors)
- ▶ Connecting the MPD to power transformers
- ▶ Performing real partial discharge hands-on sessions
- ▶ Synchronous and multichannel partial discharge testing for optimized test results
- ▶ Getting to know 3PARD and 3CFRD/3FREQ diagrams to discriminate discharge sources
- ▶ Handling interferences (frequency selection, gating and source discrimination)
- ▶ Interpreting partial discharge test results
- ▶ Classifying partial discharge types and determine the risk for the test objects

Solutions

MPD 800 and accessories
PDL 650 (acoustic partial discharge locator)

Audience

Technical staff from electric utilities, railway and service companies as well as manufacturers involved in partial discharge testing on power transformers.

Prerequisites

Fundamentals of Partial Discharge Testing with the MPD system or comparable knowledge