Fundamentals and applications of partial discharge diagnostics with the MPD series

2 days | **English** | **# Cpdm01en**

Become familiar with the basic principles of partial discharge measurements using the MPD system.

Learn to set-up and measure according to IEC 60270 in hands-on sessions on special training equipment. Get a systematic introduction to the interpretation of test results.

Objectives

- Measure partial discharges on high voltage devices with the MPD according to IEC 60270
- Monitor the quality of the production process by performing measurements on assembled parts
- Perform measurements to determine the insulation condition and identify fault types and fault location

Content

- Getting to know the MPD system
- Understanding how partial discharges are measured
- Connecting the MPD to high voltage devices, such as power transformers, generators, motors, cables
- Getting to know the MPD software for efficient measurements
- Performing partial discharge tests according to IEC 60270 and the IEC standard of the test object
- Performing real partial discharge measurements in hands-on sessions
- Getting to know PRPD, Q(V), trend analysis
- Interpreting partial discharge test results
- Handling interferences

Solutions

MPD 800 and accessories

Audience

Technical staff from electric utilities, railway and service companies as well as manufacturers to be involved in partial discharge testing

Prerequisites

Knowledge of electrical engineering