



Partial Discharge Testing with the MPD 600 Powered By OMICRON

Date	Venues	(\$)Fees	Book your seat
16 Mar -20 Mar 2025	Bahrain	2900	Register Now

Course Overview:

Our experienced trainer provides you with the background knowledge of partial discharge detection. In theoretical and hands-on sessions the basics of partial discharge measurement are explained and applied using the MPD 500/600 on special training equipment. You will work in small groups of up to 3 persons to perform partial discharge tests and to get to know the hardware and software.

Course Objective:

- Measure partial discharge on high voltage devices with the MPD 500/600
- Perform measurements to determine the insulation condition and identify fault types and fault location
- Evaluate aging and deterioration processes in primary assets by partial discharge measurements
- Monitor the quality of the production process by performing measurements on assembled parts
- Apply partial discharge technology to design or redesign devices exposed to high voltage

Who Should Attend?

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

Course Outline:

- Understanding the physics behind partial discharges
- Getting to know the MPD system and understand how partial discharges are measured
- Connecting the MPD to high voltage devices, such as power transformers, generators, motors
- Performing partial discharge tests according to IEC 60270 and the IEC standard of the test object
- Performing real partial discharge hands-on sessions
- Interpreting partial discharge test results
- Getting to know PRPD, 3PARD and 3CFRD/3FREQ diagrams to discriminate noise
- Classifying partial discharge types and determine the risk for the test objects
- Synchronous and multichannel partial discharge testing for optimized test results
- Performing measurements in frequency and time domains
- Handling interferences (unit gating, amplitude gating, dynamic gating)
- Getting to know the software of the MPD 500/600 for efficient measurements

Training Methodology:

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



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