




PD diagnostics on high-voltage cables with the MPD 800 (with examination)

 3 days

 English

 Cpdm03en

Enhance your knowledge on partial discharge testing on HV cables. Become familiar with advanced software features of the MPD 800 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 HV cables
- ▶ Performing measurements to determine the insulation condition and identify fault types and fault location
- ▶ Evaluating deterioration processes in HV cables and accessories by partial discharge measurements
- ▶ Monitoring the quality of the production process by performing measurements on assembled parts

Content

- ▶ Understanding the physics behind partial discharges
- ▶ Getting to know the advanced diagnostic features of the MPD 800 system
- ▶ Performing partial discharge tests according to IEC 60270, IEC 62067 and IEC 60840
- ▶ Non-conventional measurement techniques (e.g. inductive sensors)
- ▶ Connecting the MPD 800 to HV cables (if available)
- ▶ Performing real partial discharge hands-on sessions with the PD simulator or on actual HV cable (if available including HV source)
- ▶ Synchronous and multichannel partial discharge testing for optimized test results
- ▶ Locating partial discharge in cables using TDR and STDR
- ▶ Getting to know 3PARD and 3CFRD/3FREQ diagrams to discriminate discharge sources

Certification

- ▶ Trainees who successfully pass the exam at the conclusion of the training will receive a specialized certificate approved by SEC-CSD.
- ▶ In the event of failure, individuals will have the opportunity to retake the exam as per the designated schedule.
- ▶ If a trainee fails for a second time, they will be issued a regular certificate.

Solutions

MPD 800 and accessories

Audience

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

Prerequisites

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