

Measuring Partial Discharge

Course overview

A one, or two-day course from the pioneers of Partial Discharge (PD) technology, covering PD theory, PD detection instruments and PD measuring techniques.

Detecting and measuring Partial Discharge (PD) activity gives a unique insight into the condition of MV and HV assets without the need for expensive shut downs or invasive testing.

EA Technology pioneered PD theory and has developed an award-winning range of PD detection instruments and techniques that help you achieve greater network reliability and prolong asset life, while at the same time greatly enhancing operator safety.

The one-day course will introduce you to PD theory and the instruments used to measure PD in a range of equipment, while the two-day course will cover PD monitoring equipment in far greater detail, explaining how to analyse and interpret the data you collect.

Cost: One-day: £410 + VAT; Two-day: £705 + VAT

Location: EA Technology, Capenhurst, Chester, CH1 6ES

Who should attend?

You should attend this course if you are an engineer or technician working with MV or HV equipment, especially if you have responsibility for assessing the condition of switchgear, cable terminations and overhead line assets. Asset managers will also benefit from attending, as the course will give you an insight into the causes of PD and how monitoring this can be used to assess asset condition, enhance performance and extend asset life.

Benefits of attending this course

- Learn new techniques for assessing the condition of assets
- Deliver cost effective asset life extension through non-invasive testing
- Work more safely by identifying assets at risk of failure
- Save money by identifying potential failures before they happen
- Gain certification of competence to use a range of PD detection equipment
- Enhance your company's asset management strategy

Substations Courses

Specialist Courses

Cables Courses

Power Networks Courses

Protection Courses

Tailored Programmes



Measuring Partial Discharge

Course programme

Day one

Introduction

- Introduction of partial discharge
- Fault statistics

Basic Theory

- Causes of partial discharge
- Categories of partial discharge
- Preventing partial discharge

General Competency

- Entering HV enclosures

Partial Discharge Detection

- Physical signs of partial discharge
- TEV detection
- Ultrasonic detection
- GIS and open air substations
- Partial discharge detection in cables
- Transformers

Introduction to Instruments

Substation Environments

Asset Assessment

- Background interference
- Test types
- Testing requirements
- Test periods
- Operator competencies
- Results
- Using the data
- Risk management

Case Studies

Assessment

Day two

Overview of UltraTEV Monitor

Sensor Types and Locations

System Installation

System Discovery

Practical Installation

System Management and Configuration

Data Analysis

Questions/Finish

Programme may be subject to amendment



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