

Partial Discharge: E-Learning

Course overview

Two e-learning modules from the pioneers of partial discharge (PD) technology, offering the flexibility of training at a time and location to suit your organisation.

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

1. **Module 1** – a free online training course that provides an essential introduction to measuring, locating and monitoring PD activity in HV assets.
2. **Module 2** – this online course enables you to develop a greater understanding of PD, including the management of HV assets that may be susceptible to PD activity.

Both courses draw upon EA Technology's unique expertise as a pioneer of PD theory and a world-leading developer of PD detection instruments and condition assessment techniques. These techniques can help achieve greater network reliability and prolong asset life, while at the same time greatly enhancing operator safety.

Cost: Module 1: free; Module 2: £195 + VAT per user

Location: Online

Who is this for?

The training will be beneficial to engineers and technicians working with MV or HV equipment, especially those who have responsibility for assessing the condition of switchgear, cable terminations and overhead line assets.

Asset managers will also benefit, as the modules provide an insight into the causes of PD and how monitoring this can be used to assess asset condition, enhance performance and extend asset life.

What you will learn

- Understand why PD occurs and how it can effect you and your equipment
- Learn new techniques for assessing the condition of assets without the need for shut downs
- Deliver cost effective asset life extension through non-invasive testing
- Improve safety by identifying assets at risk of failure
- Save money by identifying potential failures before they happen
- Enhance your companies asset management strategy

Substations Courses
Specialist Courses
Cables Courses
Power Networks Courses
Protection Courses
Tailored Programmes



Partial Discharge: E-Learning

Course programme

Partial Discharge: E-learning Module 1

Introduction

- What is partial discharge (PD)
- Why it occurs

How The Presence Of Pd Can Effect You And Your Equipment

How To Detect PD

How To Measure It And Quantify Levels

- Ultrasonic
- Transient earth voltage (TEV)
- Ultra high frequency (UHF)

How To Monitor For PD Over Longer Periods

An Introduction On How To Use The Data Collected

Partial Discharge: E-learning Module 2

Introduction

- Common applications of PD assessment
- Why test?

PD Introduction

- Causes of PD
- Categories of PD
- Causes of insulation breakdown
- How PD develops
- Detection of PD
- Fault statistics

Physical Signs Of PD And Substation Environments

Background Interference And Testing

- Background interference
- Type tests and rationale
- Testing requirements
- Operator competencies
- Test periods and requirements
- TEV/ultrasonic measurement thresholds

Risk Management, Remedial Actions And Record Keeping

Course Summary



Safer, Stronger,
Smarter Networks

www.eatechnology.com

Australia | China | Europe | Singapore | UAE | USA

Main reception: +44 (0) 151 339 4181
EA Technology, Capenhurst Technology Park
Capenhurst, Chester, CH1 6ES, United Kingdom