

# Do you know the condition of your assets' insulation?

## Let's find out!

## OMICRON Academy

**Maryam Ebrahim**  
*Regional Training Manager*

The OMICRON Academy was founded to support you on a path to excellence in power system testing through the provision of professional training courses.

The courses are built around real testing situations and are ideal for technical staff from electrical utilities, industrial plants, equipment manufacturers and service companies.

Without doubt, the detection and analysis of **Partial Discharge** is becoming a key topic within the commissioning/testing community. To address the intense nature of this subject OMICRON has devised a modular training programme to allow you to select topics in order of importance based on your company priorities. You will become familiar with both the principles of PD and their measurement techniques.

Start your PD programme with us and build your knowhow.

**1 program**

**5 modules**

# 100% knowhow in Partial Discharge Testing



**Bavley Farid**

*Regional Application Specialist, Partial Discharge Diagnostics and Analysis*

I have been delighted to be able to delve deeply into this important and emerging topic.

The modules will deliver a refreshing mix of arranged theory content, practical measurements on different assets and exchange of experiences.

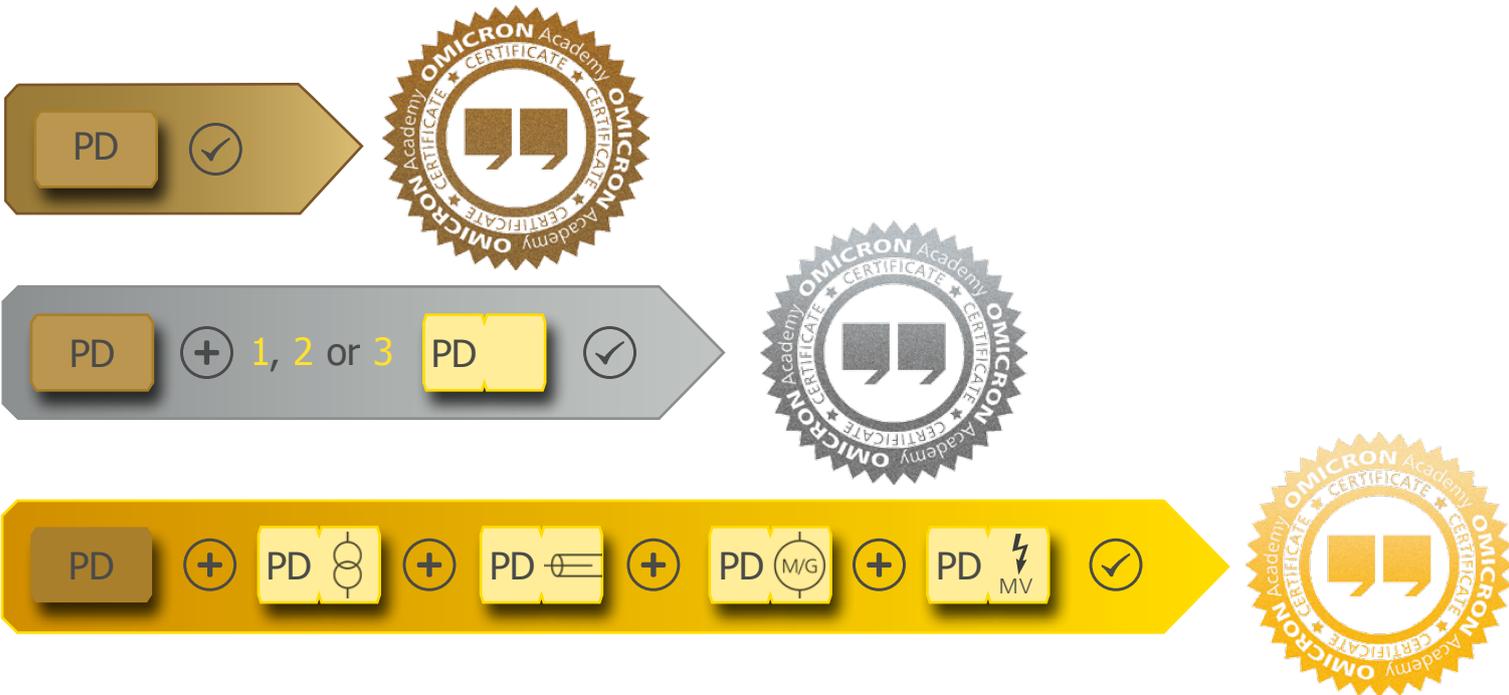
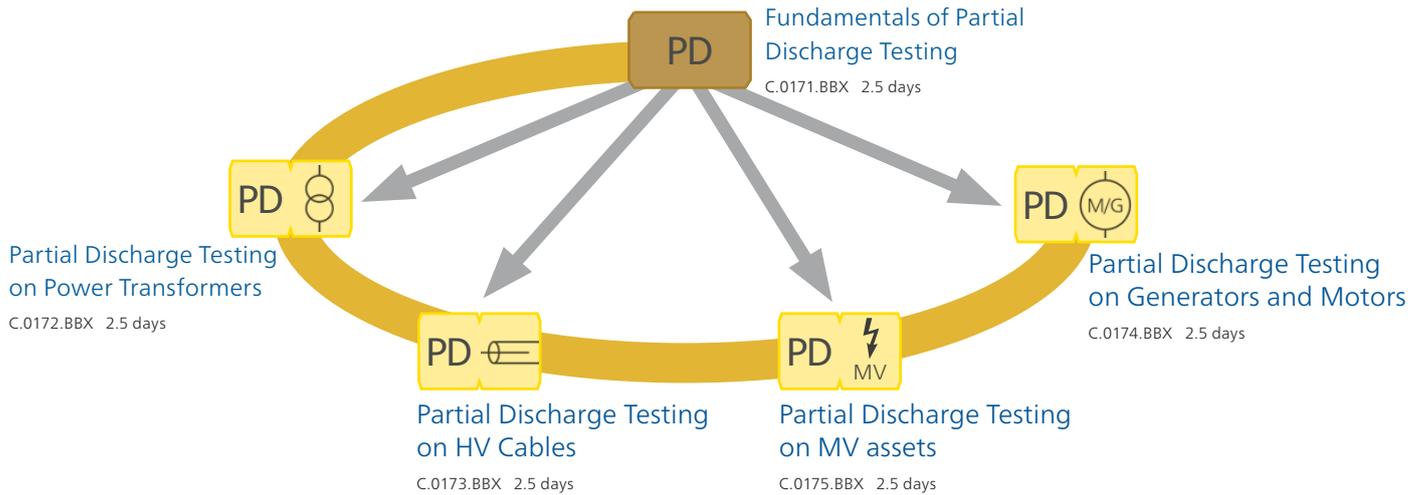
This will equip you with the knowledge and skills to perform PD Testing in the factory and on site.

By working in groups every participant has the possibility to explore the measurements and discuss upcoming questions with both the participating group members and the trainer.

Welcome!

**All Partial Discharge Testing Modules 'at-a-glance'**

After the completion of the Fundamentals module, you will be able to select any of the remaining modules in your order of priority.



**Fundamentals of Partial Discharge Testing:** This is the basic cornerstone of the five modules and is a compulsory element of any further training undertaken. To get you started with the topic, the content will include basic Partial Discharge theory and standard calibration and measurement techniques. You will be introduced to the interpretation of test results.

**Partial Discharge Testing on Power Transformers:** Concentrating on Power Transformers you will perform measurements to determine the insulation condition and identify fault types and fault location. Evaluation of the deterioration processes in power transformers will also be covered. You will then monitor the quality of the production process by performing measurements on assembled parts and apply partial discharge technology to design or redesign devices exposed to high voltages.

**Partial Discharge Testing on HV Cables:** Focusing on HV cables you will 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.

**Partial Discharge Testing on MV assets:** You will perform measurements to determine the insulation condition and identify fault types and fault location. You will also evaluate the deterioration process in MV assets and monitor the quality of the production process via the measurement performed on assembled parts. You will then apply partial discharge technology to design or redesign devices exposed to medium voltage.

**Partial Discharge on Generators and Motors:** You will learn the setup for conventional and unconventional measurements and also understand detection, measurement and documentation of partial discharge in primary assets. You will perform time-efficient measurements for comprehensive insulation diagnostics on different assets. Interpretation will be a key aspect of learning where you will learn how to study the measurement results and draw conclusions on the insulation for condition-based maintenance planning.

**Contact our ME Training Center:**

+973 1711 6400

[academy.mideast@omicronenergy.com](mailto:academy.mideast@omicronenergy.com)

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