# Partial Discharge Assessment

## - Remote Training Seminar

Learn about the basics of Partial Discharge and how to apply this theory to different electrical assets in an interactive virtual seminar. This 8 hour training is split into four modules over two days, with four hours being presented each day.

#### **Training Outline**

The following topics will be covered during this training;

- In depth partial discharge theory
- What to look for in the PD data
- Making the right follow up actions
- Applying PD theory to different assets

#### Learning Outcomes

The following outcomes will be achieved through completion of this training. Day One: Partial discharge theory:

- Knowledge of the partial discharge phenomena
- Understanding of PD patterns
- Knowledge of the PD measurement theory and its implication with field measurements

Day Two: Electrical assets partial discharge assessment:

- Capability of selecting the right PD test
- Interpretation of the PD test results
- Basic PD assessment and follow up actions for different assets

To ensure that attendees can ask questions along the way like a face to face training course, we have limited this class to 10 attendees. Attendees are encouraged to ask questions and interact with the presenter and the content as the course is proceeding.

#### **Training dates**

Tue 2nd June 10am - 2:30pm AEST Wed 3rd June 10am - 2:30pm AEST

**Meeting room** Online Webex Meeting

#### Who should participate?

Engineering and maintenance personnel who are involved in condition assessments of electrical assets.

#### Requirements

This course is limited to 10 attendees to ensure that the course can remain interactive.

Attendees are strongly encouraged to have a webcam and microphone to allow participation in this course

Register for this remote seminar at www.austorque.com



Participation in this course may be eligible for CPD. Please check with your authorising body for full details.



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## **Training Program Outline**

### Following is the program for the training;

#### Tuesday 2nd June Partial Discharge Theory

#### **Theory Basics**

Module 1 Duration: 2 hours

- Definition
- Type of Partial discharge
- Internal Partial discharge process
- PD Pattern explanation and identification

#### **PD** Measurement

Module 2 Duration: 2 hours

- Apparent charge measurement
- PD amplitude measurement limitations and its application
- PD measurement circuits
- Type of PD sensors and their characteristics

#### The 8 hour training course will be split into two four hour sessions held over two days. Attendees can register for the full course or individual days There will be a half hour break between each module

#### Wednesday 3rd June Electrical assets partial discharge assessment

#### **Cables and Switchgear**

Module 3 Duration: 2 hours

- Deliverable values and limitations
- On line v Off line PD assessment
- Cable PD assessment:
  - Online/Offline measurements
  - How to analyses the data and pre-locate the PD
  - What to do if a PD phenomenon is detected?
- Switchgear PD assessment:
  - Online/Offline measurements
  - How to analyses the data and pre-locate the PD
  - What to do if a PD phenomenon is detected?

#### **Generators and Transformers**

Module 4 Duration: 2 hours

- Generator PD assessment:
  - Online/Offline measurements
  - How to analyses the data
  - What to do if a PD phenomenon is detected?
- Transformer PD assessment:
- Online/Offline measurements
- How to analyses the data
- What to do if PD phenomenon is detected?

#### Presenter

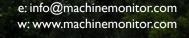
Luca Garagnani

#### Principal Technical Authority – Cables & Switchgear

Luca Garagnani holds a master's degree in Electrical Engineering with particular expertise in Partial Discharge Testing. Luca studied under the renowned Prof. Montanari and Prof. Cavallini at Bologna University.

His experience has centred around the measurement and analysis of MV/HV cables, transformers, switchgear and rotating machines throughout Europe, USA, Asia, and the Middle East. During this experience he has also been involved in teaching and tutoring on the theory of partial discharge and measurement techniques.





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#### **Registration - Partial Discharge Assessment - June**

To help keep the course as immersive as possible and encourage participation throughout the course, this online course is limited to ten attendees.

To reserve your virtual seat, please return completed form by to training@austorque.com. You will then receive the full registration form to complete payment.

Registrations in this limited class are not finalised until payment is complete

#### **Registration Form**

Name				
Job Title				
Company				
Address				
Suburb	Postcode			
Telephone	Mobile			
Email				
Course				
Cost []Both days \$495 + GST	[ ] <b>One Day</b> \$325			

#### **Payment Option**

Purchase Order	PO Number				
Credit Card	Credit Card Type	VISA		Mastercard	
	Credit Card Number				
	Cardholders Name				
	Cardholders Signature				
	Expiry		CCV		

#### **Cancellation & Withdrawal Policy**

Withdrawal received up to two weeks prior to the course will be subjected to a charge of \$100. There will be no refunds two weeks prior to the course. Delegate substitution is permitted prior to course commencing.



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