Partial Discharge: Testing and Condition Assessment

Electrical Engineering Courses

Course Overview

Partial Discharge: Testing and Condition Assessment: a 5-day professional training course from LTC Consultants, delivered in-classroom across Africa and live...

What You Will Achieve

- Explain what partial discharge is and why it precedes insulation failure
- Select appropriate PD detection methods: electrical, ultrasonic, UHF, TEV
- Perform online PD surveys on switchgear and cables safely
- Interpret PD patterns and severity to prioritise intervention
- Integrate PD testing into a condition-based maintenance strategy

Who Should Attend

Electrical engineers, condition-monitoring specialists, test technicians and asset managers responsible for medium- and high-voltage plant.

Course Outline

1. Insulation ageing and the physics of partial discharge
2. PD types: internal, surface, corona and their signatures
3. Measurement fundamentals: IEC 60270 and beyond
4. Online techniques: TEV, ultrasonic and UHF surveys
5. Offline testing of cables, motors and switchgear
6. Pattern interpretation and severity assessment
7. Case studies: catches, misses and lessons
8. Building PD into condition-based maintenance

Upcoming Dates and Fees

DATES	VENUE	FEE (PER DELEGATE)
23 to 27 Nov 2026	Online	**$700**
30 Nov to 4 Dec 2026	Johannesburg	**$1,450**

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Every delegate receives a Certificate of Attendance. Group and in-house rates available on request.