

Condition Monitoring Techniques for Distribution Switchgear & Transformer

Course Code: ENO63

COURSE OBJECTIVES

Upon completion of this course, participants will be able to:

- Understand fundamentals of partial discharge
- Perform partial discharge detection using condition monitoring diagnostic tools and instrument
- Apply condition monitoring techniques for distribution electrical assets

MAIN CONTENTS

- History and development of condition monitoring
- Overview of partial discharge (PD) theory
- Common causes of PD and its effects
- PD phenomenon before breakdown
- Breakdown mechanism of insulation
- Benefits of condition monitoring
- Basic condition monitoring diagnostic tools and instruments
- Use acoustic and transient earth voltage (TEV) methods to detect PD
- Review distribution switchgear cases on busbar, circuit breaker and cable termination compartments
- Review distribution transformer cases on cable termination and dissolved gas analysis (DGA)
- Case studies on diagnostic experience and root cause analysis
- Practical hands-on using acoustic and TEV instruments

METHODOLOGY

Lecture and practical sessions.

Practical: Hands-on session using CM diagnostic tools to perform assessment

TARGET AUDIENCE

Technical staff who are involved in maintenance of distribution electrical assets

COURSE DETAILS

Duration	:	14 hours
Mode of Delivery	:	Face-to-face
Certification	:	SIPG Certificate of Completion
PDU by PE Board	:	Pending
Additional Requirement/s	:	Not applicable

COURSE FEES

Full Course Fee	:	S\$1,400 (before GST)
For Singapore Citizens/PR/LTVP+*	:	Not applicable
For Singapore Citizens (40 years old and above)	:	Not applicable

ADDITIONAL REMARKS

- Trainee must attain at least 75% attendance rate and pass the assessment to receive Certificate of Completion and funding grant (if applicable).
- Subsidy of up to 70% is applicable for Singapore Citizens, Permanent Residents or Long-Term Visitor Pass Plus (LTVP+) Holders, subject to funding agency's approval.
- Enhanced subsidy of up to 90% is applicable for Singapore Citizens aged 40 years and above, subject to funding agency's approval. Note that GST payable will be computed from fee after 70% funding.
- Professional Development Unit (PDU) is applicable for Professional Engineers registered under the Professional Engineers (PE) Board only.
- All published fees are subject to prevailing GST.

CONTACT US

For more information, please contact SIPG at +65 6916 7930 or email training-institute@spgroup.com.sg.

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