

Essential Test Instruments for Low Voltage

Course Code: EFD02

COURSE OBJECTIVES

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

- List the test instruments that are commonly used for low voltage (LV) works (e.g., multi-meter, insulation resistance tester, etc.)
- Know the applications of the different LV test instruments
- Apply the techniques in using the Test Lamp
- Explain the purpose of conducting the insulation resistance test
- Discern on the status of the equipment or cables under test
- Understand the principle of electromagnetic induction used for cable identification
- Apply the safety precautions to be taken while using LV test instruments on 'live' equipment and cables

MAIN CONTENTS

- Safety precautions while using test instruments
- Multi-meter
- Test lamp
- Megger or Insulation Resistance Tester
- Phase Rotation Meter
- Earth Megger
- Earth Loop Impedance Tester
- Signal Generator
- Thermal Gun/Scanner
- Voltage Detector

METHODOLOGY

Lecture and practical session

TARGET AUDIENCE

Engineering and technical staff working in the electrical power industry

COURSE DETAILS

Duration	:	7 hours
Mode of Delivery	:	Face-to-face or Blended (Face-to-face and Synchronous E-learning)
Certification	:	SIPG Certificate of Completion
PDU by PE Board	:	4
Additional Requirement/s	:	Personal Protection Equipment (PPE) must be worn during practical session. PPE includes: <ul style="list-style-type: none">• Safety Shoes• Rubber Gloves• Fire Retardant Clothing (FRC)• Face Shield

COURSE FEES

Full Course Fee	:	S\$700 (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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