

A Primer to Electricity

Course Code: EFD01

OBJECTIVES

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

- Explain the importance of electricity to different stakeholders
- Identify the transmission and distribution components of the electricity system
- Apply basic electrical principles
- Apply energy saving principles to lower electricity consumption
- Apply basic protection measures for electrical installation
- Outline the key aspects of the Electricity regulations
- Identify the common problems and non-compliance of electrical installation

MAIN CONTENTS

- Components of the electricity system
- Ohm's law
- Direct current (DC) and Alternating current (AC)
- Single phase and three-phase power
- Power and energy
- Principles for better energy efficiency
- Government incentives for energy efficiency
- Basic protection measures for electrical safety
- Summary of Electricity Regulations from Energy Market Authority

METHODOLOGY

Lecture and group discussion

TARGET AUDIENCE

Non-engineers and technical staff who wish to have or require a basic understanding of electricity principles and its applications.

COURSE DETAILS

Course Duration	14 hours	
Mode of Delivery	Face-to-Face or Synchronous E-Learning	
Assessment	Yes	
Certification	SIPG Certificate of Completion ¹	
PDU by PE Board ²	-	
Course Fee before Funding	\$580 w/o GST	\$620.60 with GST
Course Fee after Funding ³	Not applicable	-

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¹ Participants must attain at least 75% attendance rate and pass the assessment.

² Applicable to Professional Engineers registered in Professional Engineers Board (PEB) only.

³ Funding grant is available for Singapore Citizens and Permanent Residents only.

