



IES-ACES QEC DISTINGUISHED LECTURES - ELECTRICAL SAFETY AND STANDARDS UPDATES

**25 MAY 2023 (THURSDAY)
6PM TO 9PM**

**VENUE:
LIFELONG LEARNING INSTITUTE
11 EUNOS ROAD 8,
LEVEL 2, LECTURE THEATRE
SINGAPORE 408601**

To Register



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**FOR QEC MEMBERS ONLY
FREE REGISTRATION
FOR THE
1ST AND 2ND
REPRESENTATIVES**

SUPPORTED BY:

Life Is On

Schneider
Electric



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2 STU (M&E) - CONFIRMED

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Registration Fees:

M&E RE/RTO: \$55.00 (nett)

**QEC 3rd or more
Representatives:
\$55.00 (nett) per person**

**IES/ACES members:
\$55.00 (nett)**

Others: \$90.00 (nett)

PROGRAM AGENDA

25 MAY 2023

THURSDAY

6:00pm - 6:45pm	Registration / Dinner / Networking
6:45pm - 7:00pm	Welcome Speech by Er. Simon Lee (IES QEC Chairman)
7:00pm - 7:30pm	Overview of Codes of Practice for Electrical Installation SS638:2018 Speaker: Er. Teo Chor Kok
7:30pm - 8:00pm	Topic: Innovation in the Air - SF6 Free Technology Speaker: Mr Michael Teh
8:00pm - 8:45pm	Electrical Safety from mA to kA, Presentation cum Demonstration of Earth Leakage and Earth Fault Protection Speaker: Mr Ong Peck Seng
8:45pm - 9:00pm	Q & A Session - Speakers



Er. Teo Chor Kok
IES M&E Engineering TC

OVERVIEW OF CODES OF PRACTICE FOR ELECTRICAL INSTALLATION SS638:2018

Er. Teo Chor Kok obtained his degree in Electrical Engineering from University of Singapore, in 1979. He has also obtained a BSc in Mathematics from University of London, UK, an MSc in Industrial Engineering from National University of Singapore, and a Graduate Diploma in Business Administration from Singapore Institute of Management.

Er. Teo worked for the Electricity Department of the PUB, till 1995, and SP PowerGrid till 1997. He is a registered PE, since 1985. He is a practising EMA-licensed Electrical Engineer, authorised to operate and maintain electrical installations, up to 22 KV, since 1997. He has conducted courses on earthing applications and short courses on CP5 : 1998 and SS 638 : 2018. Er. Teo has investigated HT flash overs and LT short circuit fire cases, and has acted as Expert Witness on cases relating to electrical fire incidents.

Synopsis

Overview of Codes Of Practice For Electrical Installation SS638:2018

- Overview of SS638:2018 from CP5:1998
- The organise structure of SS638:2018
- The major changes from CP5:1998
- The additional Code from CP5:1998
- Moving forward with SS638:2018



Mr Michael Teh
Schneider Electric
Power Systems Product Manager
Singapore, Malaysia, Brunei,
Energy Management Business Unit

INNOVATION IN THE AIR - SF6 FREE TECHNOLOGY

Michael Teh is a Power Systems Product Manager for the Energy Management Business Unit in Singapore, Malaysia, and Brunei. With over 15 years of experience in the energy management industry, Michael has a strong technical background and is passionate about delivering innovative solutions to improve energy efficiency and reduce carbon footprint.

In his current role, Michael is responsible for driving the growth of the Power Systems business in Singapore, Malaysia, and Brunei. He works closely with customers to understand their needs and develop customized solutions that meet their specific requirements.

Synopsis

During this presentation, we will be introducing our SF6 free switchgear, the latest innovation in green generation of MV GIS switchgear for primary distribution. This product is powered by pure air and digital technology, making it an environmentally friendly and efficient solution for power grids.

We will be discussing the benefits of SF6 free switchgear, including its ability to help companies reduce their environmental impact and lower the cost of maintenance. With SF6 free switchgear, you can decarbonize the grid and improve operation efficiency, making it a valuable investment for any company looking to improve their sustainability and bottom line.

We will share the technical details of SF6 free switchgear and its advantages over traditional SF6 switchgear. We will also be showcasing real-world examples of companies that have successfully implemented this technology and the benefits they have experienced.



Mr Ong Peck Seng
Ex. ABB, AVP Marketing,
Low Voltage Products Division

ELECTRICAL SAFETY FROM MA TO KA, PRESENTATION CUM DEMONSTRATION OF EARTH LEAKAGE AND EARTH FAULT PROTECTION

Mr Ong Peck Seng obtained a Diploma in Electrical Engineering (1981), Advance Diploma in Power Electronic (1989), Special Diploma in Energy Efficiency Study (2011).

Mr Ong has 50 years working experience in the Electrical Industry, specialised in Motor Control, VSD, Harmonics, EMC and LV Power Distribution.

Synopsis

Electric Power Systems are design to provide safe and continuity of services, earth protection is one of the key protections looking into the safety of human life, safeguard of our property as well as improve the continuity of services of power supply.

In this sharing session, he will touch on the basic of earth protection, differentiation of "Life" protection and the "Property" protection, typically prevention of Fire cause by leakage. Latest technology and products available to improve the safety and reliability will also touch on, especially involving the trend of renewable energy that might be originated from DC sources.