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**DATE: 8<sup>TH</sup> OCTOBER 2019**

**ONE DAY COURSE ON  
 POWER QUALITY TALK: IEC 61000-4-30,  
 IEE1159 and IEEE519**

ORGANISED BY  
 ELECTRICAL ENGINEERING TECHNICAL DIVISION, IEM  
 CO-ORGANISED WITH  
 Schneider Electric Industries (M) Sdn Bhd

**Venue: Schneider Electric Industries (M) Sdn Bhd, Plaza 33,  
 Petaling Jaya, Selangor  
 Time: 8.30am – 5.30pm  
 Speaker: Dr John Cheng**

**BEM Approved CPD/ PDP hours: 7.5 Ref. No.: IEM19/HQ/425/C**

**REGISTRATION FEES**

	ONLINE	NORMAL (Offline)
IEM Member	RM 100.00	RM 120.00
Non-IEM Member	RM 150.00	RM 180.00
<i>Subject to 6% SST</i>		

**Limited Seats, registration will be on  
 first come-first serve basis.**

**REGISTRATION FORM  
 ONE DAY COURSE ON  
 POWER QUALITY TALK: IEC 61000-4-30, IEE1159 and IEEE519  
 (Closing Date: 5<sup>th</sup> October 2019)**

No	Name(s)	M'ship No.	Grade	Fee (RM)*
SUB TOTAL				
Total Payable				

\*Fees MUST be fully paid BEFORE the CLOSING DATE. Seats could only be confirmed upon payment.  
 Enclosed herewith a crossed cheque No: \_\_\_\_\_ for the sum of RM \_\_\_\_\_  
 issued in favour of "The Institution of Engineers, Malaysia" and crossed 'A/C payee only'. I/We  
 understand that the fee is not refundable if I/We withdraw after my/our application is accepted by the  
 Organising Committee as stated in the **cancellation term**. If I/We fail to attend the seminar, the paid  
 registration fee will not be refunded.

Contact Person: \_\_\_\_\_ Designation: \_\_\_\_\_

Name of Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone No.: \_\_\_\_\_ (O) \_\_\_\_\_ (Fax)

\_\_\_\_\_ (H) \_\_\_\_\_ (HP)

Email: \_\_\_\_\_

\_\_\_\_\_  
 Signature & Stamp

\_\_\_\_\_  
 Date

**Photocopies are acceptable**

### COURSE SYNOPSIS

Have you ever experienced unexplained electrical phenomena which is confusing at times or perhaps faced some frustrating situation in understanding those unforeseen phenomena? Do we have any standards on power quality (PQ) measurement for PQ meters? What about harmonics? Why should we concern about all those topics? If you have doubts or wanting to know more about all these topics related to PQ, then this session is the right avenue for you to find out and get enlightenment. In this session, 3 international standards on PQ will be discussed, viz. the IEC 61000-4-30 "Testing and measurement techniques – Power quality measurement methods", IEEE Standard 1159 "IEEE Recommended Practice for Monitoring Electric Power Quality" and IEEE Standard 519 "IEEE Recommended Practice and Requirements for Harmonic Control in Electric Power Systems"

IEC 61000-4-30 provides the standards for power quality meters. This is the only recommended standard for all power quality meters such that all measurement is aligned and same for the same class of meters. This session will go into details of this standard and cross reference to IEC 62586-1 and IEC 62586-2 for the testing of PQ meters. IEEE 1159 lists out the recommended practice for monitoring power quality (PQ) in general and provides practical approach to broad aspect of PQ. The topics covered in this session on PQ are extracted from IEEE 1159 and practical approach to PQ will be discussed too. IEEE 519-2014 is a document where it recommends practice and requirements for harmonic control in electric power systems. The latest IEEE 519-2014 is viewed as a paradigm shift document compare to previous version. This session will expound of the comparison between the 2014 and 1999 versions.

**Target Participants : Consultants and end users in utility and critical power segment (eg: semiconductor, F&B, data centre, airport, hospital etc)**

### **SPEAKER'S BIODATA**

Dr. John Cheng is the Senior Manager for Power Quality Offer Marketing East Asia Japan based in Singapore. He has been working on PQ related topics since 1999, and he is trained in USA on PQ from 2005-2006. He has conducted several seminars, classes and also has been invited as guest speaker for conferences on the PQ and harmonic topics in APAC region since 2006. He obtained his doctorate degree from Singapore Nanyang Technological University in 2007 in the area of power electronics, and his master degree from National University of Singapore in 1999 in the area of power system. He has published 9 articles in various journals, transactions, conferences and white papers. Dr. John is registered Chartered Engineer (UK), Certified Energy Manager (AEE, USA), Certified Energy Auditor (AEE, USA), Certified Measurement & Verification Professional (AEE, USA). He is also the Senior Member of IEEE (USA), Member of IET (UK) and Member of AEE (USA).

### **Tentative Programme**

<b>Time</b>	<b>Description</b>
<b>9.00 am – 9.15am</b>	<b>Morning Speech</b>
<b>9.15am – 12.00pm</b>	<b>IEC 61000-4-30: Power Quality Insight on PQ Measurement and cross-reference to IEC 62586</b>
<b>12.00pm – 1.00pm</b>	<b>Lunch</b>
<b>1.00pm – 3.30pm</b>	<b>IEEE 1159: Power Quality Knowledge</b>
<b>3.30pm – 4.00pm</b>	<b>Tea Break</b>
<b>4.00pm – 5.30pm</b>	<b>IEEE 519-2014: Compliances, Updates, Solutions and Case Studies</b>
<b>5.30pm – 6.00pm</b>	<b>Q &amp; A</b>
<b>6.00pm</b>	<b>End</b>

### **Terms & Conditions:**

- For **ONLINE REGISTRATIONS**, only **ONLINE PAYMENT** is applicable [via RHB and Maybank2u –Personal Saving & Personal Current; Credit Card - Visa/Master].
- Payment via **CASH / CHEQUE / BANK-IN TRANSMISSION / BANK DRAFT / MONEY ORDER / POSTAL ORDER / LO / WALK -IN** will be considered as **NORMAL REGISTRATION**.
- **FULL PAYMENT** must be settled before commencement of the course, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participants fail to attend the course, the fee is to be settled in full.
- Fee paid is not refundable. Registration fee includes lecture notes, refreshment.
- The Organizing Committee reserves the right to cancel, alter, or change the program due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes. In view of the limited places available, intending participants are advised to send their registrations as early as possible so as to avoid disappointment.

### **CANCELLATION POLICY**

IEM reserves the right to postpone, reschedule, allocate or cancel the course. Full refund if cancellation is received in writing more than 7 days before start date of the event. No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with prior notification and substitute will be charged according to membership status.