



Celebrating 50 Years of Engineering Excellence

Technical Seminar on Hazardous Area Zoning and Classification for the Chemical Process Industry (2nd Run)

Brought to you by

**IES Oil, Gas and Petrochem Sub-Committee (OGPSC)
of the Chemical And Process Engineering
Technical Committee (CAPE TC)**

Date:	Friday, 29 July 2016
Time:	8.00am – 4.30pm
Venue:	Training Rooms 1 and 2 (2 nd Level, accessible via lift) IES Green Building @ Bukit Tinggi aka Brian Chang Building, 70 Bukit Tinggi Road The Institution of Engineers, Singapore Singapore 289758
CPD/PDU:	6 PDU s for PEB PEs (Confirmed for all engineering branches/disciplines). 3 CPD for SCDF FSMs (Confirmed).
Fees: (with prevailing GST, include 1 lunch and 2 tea breaks of light refreshments)	\$S\$80.00/- per pax – for IES Members \$S\$120.00/- per pax – for Non-Members

Synopsis

In this Seminar, we bring together the experts from consultants and trainers in this field to provide the participants with a comprehensive understanding of the hazardous area zoning and classification process, the design, selection of hazardous area equipment as well as Ex-personnel certification.

The guest speaker from **Tianjin Economic-Technological Development Area (TEDA)** will introduce **Nangang Industrial Zone**, a designated Energy & Chemical hub.

She would also share about the anti-explosion measures that are being implemented in the aftermath of Tianjin Port incident.

Programme

Time	Event
8.00am	Registration
8.25am	Welcome Speech
8.30am	Basics of Explosion Protection by Ms Lynn Lim, SPADE <ul style="list-style-type: none">- The Effects of Explosions- History of Explosion Atmospheres- Development of Explosions- Primary and Secondary Explosion Protection- Electrical and Non-Electrical Explosion Protection
9.30am	Risk & Ignition Hazard Analysis by Ms Lynn Lim, SPADE
10.30am	Tea Break
11.00am	Tianjin Economic-Technological Development Area by Ms. Zhao En Yun, TEDA <ul style="list-style-type: none">- Introduction- Current Engagement of Anti- Explosion Measures- Investor Synopsis
12.30pm	Lunch

Time	Event
1.30 pm	<p>Hazards in hydrocarbon Industries and mitigation techniques by Mr S.Sethuraman, ATTS</p> <p>Introduction</p> <ul style="list-style-type: none"> - Standards, Directives & updates - Hazardous Areas - Mitigation Techniques <ul style="list-style-type: none"> ■ Protection methods for electrical equipment ■ Protection methods for non-electrical equipment ■ Installation requirements ■ Inspection requirements
2.30pm	<p>Explosion Protected Motors by Mr S.Sethuraman, ATTS</p> <ul style="list-style-type: none"> - Flameproof - Increased Safety - Non-sparking - Pressurised
3.00pm	Tea Break
3.30pm	<p>Why a Competent Workforce important to you. by Mr Thomas Won, ATTS</p>
4.00pm	<p>Knowledge Enhancement Programs by Mr Thomas, ATTS</p> <ul style="list-style-type: none"> - VFD (IADC) - High Voltage for Marine Engineers (MCA) - HV & LV Switching Course for onshore & offshore (IADC) - CompEx Competence Based Course (JT Ltd)
4.30 pm	End

Speakers' Profile

Ms Lynn Lim

CEO, SPADE Consultancy and ACE Bureau

Ms Lynn Lim has a stellar record of 15 Years in the equipment testing and worldwide certification arena. Previously, she had held various strategically important appointments at TÜV SÜD and Eurofins, after which she was the cornerstone for building up Bureau Veritas (South East Asia) Electronics and Electrical division.

Currently, she owns a consulting and auditing company, namely; SPADE Consultancy and ACE Bureau. Due to her passion and devotion to this trade, she is nominated as IECEX and ATEX auditor which is highly sought after in the Asia Pacific region. SPADE Consultancy was also granted wireless certification rights in which review and certification can be completed with quick turnaround time.



SPADE Consultancy and ACE Bureau are adept in a wide scope of consultancy services ranging in sectors of wireless technologies, consumer, industrial, gaming, IECEX/ ATEX, Medical and etc. They are authorized by various Notified Bodies (ie. Telefication, MiCOM Labs, Bureau Veritas, SIQ, KIWA Netherlands etc) to give a total solution.

Ms Zhao En Yun (赵恩云)

Deputy Director, Nangang Industry & Economic Development Board

To be added.

Mr. S. Sethuraman

Trainer, Assets Training & Technical Services Pte Ltd

Mr. Sethuraman has gained his professional experience in a complex refineries company in various portfolios. His career experience has been all along in Oil & Gas Industries for more than 29 years, before he took his full time Training & Assessment Profession.

His areas of expertise include Installation & Maintenance of Electrical Equipment in hazardous area and Inspection & Commissioning of Electrical equipment for hazardous area.



Further to his career as a Professional Engineer, Mr. Sethuraman empowered himself with qualifications and switched to Training & Assessment Industry.

Since 2012, he has been working in Assets Training & Technical Services Pte Ltd, as a certified Trainer/Assessor for 'Ex' Training and other electrical courses.

Mr. Thomas Won, Master of Business in IT
Executive Director of Megawatts Engineering Services Pte Ltd/ ATTS

Mr. Thomas Won is the Executive Director of Assets Training & Technical Services Pte Ltd ("ATTS") and oversees the operations and the directions for the company. ATTS focuses on competency training for Electrical Personnel working in the Oil and Gas, Marine, Petrochemical and Pharmaceutical Industries.

He is also the Executive Director of Megawatts Engineering Services Pte Ltd ("Megawatts"). Megawatts is well-known in the Oil and Gas Industry for the provision of Electrical & Mechanical Services, both onshore and offshore.



Prior to joining ATTS, Thomas was a Regional Director of America MNC in the Oil & Gas Industry for more than 10 years

TERMS & CONDITIONS

NOTE: IES-SG50 \$10/- Discount Voucher(s) is/are NOT APPLICABLE for this Technical Seminar.

Registration

- Online registration at https://www.ies.org.sg/event_view.php?event_id=1816
- Registration will be on a **first-come-first-served basis as seats/places are limited** and will only be accepted upon the receipt of full payment or otherwise indicated.
- Please notify us in writing of any change in your registration 7-working days before the commencement date.

We only accept online registration with full payment or otherwise indicated.

Registration Closing Date/ Time & Payment

- Registration closing date/ time: **before 12 Noon, 22 July 2016 (Friday)**
- Cheque or Cashier's Order should be **crossed A/C payee only, Payee: IES** and post to:

The Institution of Engineers, Singapore
70 Bukit Tinggi Road
Singapore 289758
Attention: Mr Colin Fong
(At the back of your Cheque, please indicate your Name and **TSHAZC2**)

Confirmation of Registration

- Confirmation of registration will be forwarded to your registered/ recorded email address within 7-working days prior to the commencement date.

Withdrawals/ Refunds of Fees

Notice of withdrawal must be given in writing to IES, policy on refund of fee is as follows:

- Within 7-working days before the commencement date: No refund.
- Full payment is still applicable if you are not able to turn up for the Technical Talk.
- Replacement is allowed but restricted to once only with written notice, it must be received by IES 7-working days before the commencement of the Technical Talk. However, when an IES member is replaced by a non-member, the participant has to pay the difference in the relevant fees.
- FULL refund if IES receives your written notice of withdrawal at 14-working days before the commencement of the Seminar.
- For e-payment, a 4.5% (online transactional service charges) will be borne by the Registrant.
- No refund otherwise.
- No show of participant would not be accepted as reason for withdrawal/refund.

Cancellation/ Postponement

- Changes in Venue, Dates, Time and Speakers for the Seminar can occur due to unforeseen circumstances. IES and/ or the Organiser(s) reserves the full rights to cancel or postpone the Seminar under such circumstances without prior reasons. Every effort, however, will be made to inform the participants or contact persons of any cancellation or postponement.
- Fees will be refunded in FULL if any Event is cancelled by IES and/ or the Organiser(s).

Alternate Payment via AXS Kiosks

- Please download <https://www.ies.org.sg/axs/AXSprocedure.pdf> for more information.
- Please select/ input/ key in: -
 - Course/ Event ID **1793**
 - Remarks **TSHAZC2**
- Please keep, retain and furnish your proof of payment(s), receipt(s) or e-receipt(s), if any, during registration.

Contact Person

(e): colin.fong@iesnet.org.sg (d): +65 6461 1236 (t): +65 6469 5000

Fees are with prevailing GST, include a lunch and 2 tea breaks of light refreshments.

Technical Seminar's duration excludes registration, meal and/ or break time(s).

For IES Members @ S\$80.00 (with prevailing GST) per pax, please provide your IES Membership Number, register online and transact payment via your VISA/ MasterCard or other appropriate modes, if any.

For Non-Members @ S\$120.00 (with prevailing GST) per pax, please register online and transact payment via your VISA/ MasterCard or other appropriate modes, if any.

Certificate of Attendance will **NOT** be issued, however, an email proofing your attendance will be forwarded to your recorded/ registered email address normally within 14 to 21 working days after the Technical Seminar.

Accreditation of CPD PDU for (i) Professional Engineers Board Singapore (PEB) Professional Engineer and/or (ii) Singapore Civil Defence Force (SCDF) Fire Safety Manager and/ or Attendees; your Name and Reg. PE/FSM Registration Number(s) will be electronically filed with or manually submitted to (i) PEB and/or (ii) SCDF normally within 14 to 21-working days after the Technical Seminar.