Welding/Cutting Processes and Safety in Confined Space

Welding and Cutting Processes
8.30am – 3.45pm

Safe Entry & Work in Confined Spaces
3.45pm – 6.45pm

PROGRAMME DETAILS
Date: 27 November 2018, Tuesday
Duration: 1 Day
Time: 8.30am to 6.45pm
Venue: Royal Plaza on Scotts or Sheraton Towers Singapore

CPD Programme: 9 PDUs, 6 STUs (Structural) & 2 STUs (Safety) – Confirmed, 9 SDUs – To Be Confirmed
Fees: $374.50 (IES Members) $428.50 (Non-Members)

*Please note that attendance for both the courses are compulsory, Certificate of Attendance will be issued to participants with 100% attendance for both courses

Part 1: Welding and Cutting Processes

Objectives:
The course discusses the different types of welding and cutting processes. The course will cover the principles and advantages/limitations of each welding and cutting process.

It is essential that the Resident Engineer (RE) and Resident Technical Officer (RTO) who are involved in construction should be familiar with different welding and cutting processes available to the fabricators. Increasingly, more fabricators are seeking to adopt innovative welding technology to enhance efficiency and productivity. Participants will be briefed on some upcoming welding technology which may be used in the Prefabricated Pre-Volumetric Construction.

Course Outline:
1. Shielded metal arc welding
2. Gas metal arc welding
3. Flux cored arc welding
4. Gas tungsten arc welding
5. Submerged arc welding
6. Plasma arc welding/cutting
7. Resistance welding
8. Electroslag welding
9. Stud welding
10. Oxyacetylene welding
11. Oxyfuel cutting
12. Air carbon arc cutting
13. Plasma arc cutting
**Profile of speaker 1:**
Mr Sze Thiam Siong is the Director/General Manager of SETSCO, an established testing, calibration, inspection, training, certification and consultancy firm. He holds a Bachelor of Engineering (B.Eng) Degree and is a qualified trainer for the American Welding Society (AWS) Certified Welding Inspector (CWI) Program. He had been awarded the International Institute of Welding (IIW) diploma as a "Certified International Welding Engineer". He is the Immediate Past President of the Singapore Welding Society (SWS). He is an alternate Member in the Singapore Accreditation Council (SAC), Member of Council Committee for Inspection Bodies (CCIB), Chairman of the Technical Committee on Proficiency and Non-Destructive Testing (NDT) and Member of Technical Committee (TC) for Structural Steelwork. He is a Member of Technical Committee on Building Structure and Sub-structure, Workplace Safety & Health and National Mirror Committee (NMC) ISO/TC 254 on Safety of Amusement Rides and Amusement Devices. He is a fellow member of Nondestructive Testing Society Singapore (NDTSS) and Singapore Welding Society (SWS). He is the President of the Asia Pacific Conference for NDT 2017 and Vice President of Asian Welding Federation (AWF). He is a member of the Advisory Committee on Nuclear Science and Radiation Protection, National Environment Agency (NEA). He has extensive experience in the field of welding inspection involving pipelines, pressure vessels, structural steelsworks and equipment. He lectures regularly at the various professional organizations such as Singapore Structural Steel Society (SSSS), Singapore Welding Society (SWS), Institution of Engineers, Singapore (IES) and BCA Academy.

**Part II: Safe Entry & Work in Confined Spaces**

**Objective:**
Confined space work is one of the most serious of all workplace hazards but is also one that is often under-estimated. The unfortunate reality is that many stakeholders and workers do not fully understand the hazards and the risks that are “hidden” in confined spaces until actual entry and work needs to be performed in them. The objective of this module is to inculcate and raise awareness in participants (especially Resident Engineers, Resident Technical Officers and Resident Architects) on the hazards of confined space entry and work that are present in construction sites. This will enable them to understand the control measures that are implemented onsite to mitigate confined space hazards. Their perspectives will be enhanced through the sharing of legal and other requirements on confined space entry and work as well as accident case studies.

**Course Outline/Outcomes:**
This module will equip RE/RTOs (QSS) with the necessary WSH knowledge (including legal and other requirements) for their course of work.

1. Definitions of confined spaces and examples of confined spaces
2. Common confined space hazards onsite
3. Lessons learnt from past confined space accidents / case studies
4. Legal and other requirements relevant to confined space entry and work
5. Control measures for confined space entry and work
6. Permit to work system for confined space entry and work

**Profile of Speaker**
Er. Winson Lee is a Principal Engineer at the Building Plans and Management Group of the Building and Construction Authority. He graduated with a Bachelor’s degree in Mechanical Engineering from the National University of Singapore in 2005. After graduation, he joined the Occupational Safety and Health Division, Ministry of Manpower (MOM) where he subsequently obtained a Master’s degree in Safety, Health and Environmental Technology from his alma mater in 2009.

Er. Lee had served the Ministry of Manpower from 2006 where he led inspectors in conducting workplace safety and health inspections and audits, conducting investigations into serious and fatal industrial accidents, prosecuting culpable parties under the WSH Act and its Regulations. Having joined the Building and Construction Authority in 2012 after serving a brief stint as a Senior Workplace Safety and Health (WSH) Manager in the private sector, he assumes regulatory role by enforcing the Amusement Rides Safety Act.

Er. Lee obtained his Professional Engineer status in 2012 under the new Professional Engineer registration framework since 2006. He had passed the Fundamentals of Engineering Examinations, the Practice of Professional Engineering Examinations and the Professional Engineers Board interview panel all in one sitting. He subsequently obtained his Specialist Professional Engineer status in Amusement Rides Engineering in 2013.

As an MOM Authorised Examiner in lifting equipment, Er. Lee’s interest lies in lifting and hoisting operations as well as WSH risk management. He previously conducts presentations to the industry on WSH matters and currently conducts in-house training courses in WSH. Er. Lee is a member of the Working Group for SS595, Singapore Standard for Steel Wire Ropes for hoisting (formerly known as CP 35 and SS297) and for Singapore Standard SS343, Specifications for Lifting Gears.
Registration Form
Welding/Cutting Processes and Safety in Confined Space 2nd Run

**Please READ** Information for SFC / UTAP claim please click HERE

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Please register online/fax the completed form by 6 November 2018 before 3pm to:
Karen Phua
IES Academy@Jurong East, Devan Nair Institute of Employment & Employability
80 Jurong East Street 21 #04-10, Singapore 609607
(Tel) 6463 9211 (Fax) 6563 6030

Participant Details

Name : ______________________________ NRIC : ______________________________

Company : ______________________________ Designation: ______________________________

Address 1 : __________________________________________________________
(For mailing of invoice and receipt)

Address 2 : __________________________________________________________
(For mailing of Certificate)

Postal Code : ______________________________ Sex : Male / Female

Mobile : ______________________________ Fax : ______________________________

Email : ______________________________ (For emailing of confirmation and location map)

Please indicate : ❑ IES members IES M'ship No.: ___________ P.E. No.: ___________ (if applicable)
❑ Non-members ❑ Sponsored by company

Contact Person Details (if different from participant)

Name : ______________________________ Designation: ______________________________

Tel : ______________________________ Fax: ______________________________

Email : ______________________________

Payment Details

Bank / Cheque No.: ______________________________ Amount ($) : ______________________________

* All Fees are inclusive of 7 % GST. Cheque should be made payable to: Engineers Singapore Pte Ltd

Acceptance of Terms and Conditions for Registrations of IES Academy’s Events
I agree to abide by the Terms and Conditions for Registration of IES Academy's Events.

Name : ______________________________ Signature : ______________________________
TERMS & CONDITIONS COURSE REGISTRATION

Registration
Any registration, whether on-line or fax will be on a first-come-first-served basis and will only be confirmed upon receipt of full payment by Engineers Singapore Pte Ltd unless otherwise invoice to company. All registrations must be submitted with duly completed registration form.

Closing Date & Payment
The closing date of the event will be 1 week prior to event commencement date or earlier. Cheques should be crossed ‘A/C payee only’ and made payable to Engineers Singapore Pte Ltd, with the Title of The Event indicated clearly written on the back of the cheques, and submitted with the duly completed registration forms to:
Attn: Karen Phua
IES Academy@Jurong East
Devan Nair Institute for Employment and Employability, 80 Jurong East Street 21, #04-10 Singapore 609607

Confirmation of Registration
Confirmation of registration will be given at least 1 week before the commencement date via email. If you do not receive the said confirmation email, you are required to contact IESA at 6463 9211 during office hours.
IESA reserves the right to allow only confirmed registrants to attend the Event.

Withdrawals/Refunds of Fees
Written notice at least 2 week in advance before the commencement of the event
Full course fee shall be refunded subjected to 4.5% transaction charge.
➢ NO refund otherwise.

No show of participant would not be accepted as a valid reason for withdrawal/refund.
One time replacement is allowed only if written notice is received by us at least 1 week before the commencement of the event. However, when an IES member is replaced by a non-member, the participant has to pay the difference in the relevant fees.

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

SkillsFuture Credit
All Singaporeans aged 25 and above can use their $500 SkillsFuture Credit from the government to pay for a wide range of approved skills-related courses. Visit the SkillsFuture Credit website (www.skillsfuture.sg/credit) to choose from the courses available on the SkillsFuture Credit course directory.
Please visit HERE for more information on SFC & UTAP claim.

UTAP Funding
UTAP (Union Training Assistance Programme) is an individual skills upgrading account especially for NTUC members. As a member, you enjoy UTAP funding at 50% of the unfunded course fee capped at $250 a year

PERSONAL DATA PROTECTION ACT
I consent to the processing by Institution of Engineers, Singapore of personal data, including sensitive personal data as defined in the Data Protection Act 2014, about me for the proper purposes of Institution of Engineers, Singapore (IES). I undertake to observe the provisions of the Data Protection Act 2014 in relation to any personal data I may myself hold and process as a Members of Institution of Engineers, Singapore, and I agree to indemnify Institution of Engineers, Singapore from liability for any claims or damages that may arise from the processing of this data. For more information kindly refer to here.

Enquiries
For further enquiries, please contact IESA general office at Tel: 6463 9211.