



# Module 3 Welding And Cutting Processes

2<sup>nd</sup> Run

3pm to 10.00pm

Monday, 19 October 2020

By Sze Thiam Siong

## Objectives:

The course discuss the different types of welding and cutting processes. The course will covers the principle 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 familiarise 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 (PPVC).

## 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

1. UTAP SUPPORTED – NTUC PLUS Members eligible to claim up to 50% of Unfunded course fee\*
2. SkillsFuture Credit Funding
  - **For Payment Of Course Fee Using Your Available SkillFuture Credit Funding & UTAP Please Click **\*\*HERE\*\*****

## Profile of speaker:

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 steelworks 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.

# Registration Form

Module 3 - Welding And Cutting Processes 2<sup>nd</sup> run

Date : 19 October 2020, Monday

Time : 3.00pm to 10.00pm

Venue : IES Academy@Jurong East  
80 Jurong East Street 21 #04-10  
Devan Nair Institute For Employment and Employability  
Singapore 609607

CPD Programme : 6 PDU, 6 STUs(Structural) - Confirmed

Fees \* : \$246.10 (IES Members) \$288.90 (Non-Members)

(Please note REs/RTOs are under Professional Membership Registry Non-member Fee Applies)

Please register online/mail/fax the completed form **by 3pm on 9 October 2020** to:  
Karen Phua

IES Academy@Jurong East, 80 Jurong East Street 21 #04-10  
Devan Nair Institute For Employment and Employability Singapore 609607

## 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 \_\_\_\_\_

Tel : \_\_\_\_\_ Fax: \_\_\_\_\_

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

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: \_\_\_\_\_

1. UTAP SUPPORTED – NTUC PLUS  
Members eligible to claim up to 50% of  
Unfunded course fee\*

2. SkillsFuture Credit Funding\*

- **For Payment Of Course Fee Using Your Available SkillFuture credit Funding & UTAP Please Click **\*\*HERE\*\*****

## **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 (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.

### **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

**SkillsFuture Credit (SFC)** "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](http://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.

### **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.