

## HALF-DAY SEMINAR ON THE USE OF WELDING ELECTRODE

Organized by  
Hong Kong Institute of Steel Construction  
Department of Civil and Environmental Engineering, Hong Kong Polytechnic University

Supported by  
Joint Structural Division, The Hong Kong Institution of Engineers

Sponsored by  
Ying Fat Welding Equipment Company Limited

Date:	28 <sup>th</sup> October 2016 afternoon
Venue:	Room Z512, The Hong Kong Polytechnic University, Hungghom, Kowloon
Time	1:45 pm (registration) for 2:15 pm to 5:45 pm

### Scope and Objectives

In Hong Kong's construction industry, manual metal arc welding is the most common type of welding used on site. While it requires much practice to master, selecting correct electrode for the job can be equally challenging.

Welding electrodes are available in a wide range of types, each of which provide different mechanical properties and operate with a specific type of welding power source.

Substantive experience has been acquired in the past decades to deduce the following factors when selecting the right welding electrodes.

- ✓ *Base Metal Composition*
- ✓ *Tensile Strength matching*
- ✓ *Welding Position*
- ✓ *Welding Power Source*
- ✓ *Base Metal Thickness, Shape and Joint Fit-Up*
- ✓ *Specification and Service Conditions*

Consideration of the above factors will help you overcome the challenges of selecting the correct welding electrode for your particular application.

This seminar will focus on those attributes together with some insights on local regulations / specifications on the control of welding consumables.

The speaker of the seminar is Mr. Vinodh Kumar, who is the Manager (NDT & Welding) of Fugro Technical Services Ltd., Hong Kong. Mr. Vinodh acquired his B.Eng (Hons) from Australia and has gained many international Certifications in NDT, Welding, Painting, Coating, Asset Integrity and QHSE Management Systems.

The seminar is designed for technically competent persons of AP, RSE and RGBC streams to refresh and equip themselves with the latest knowledge for the better control of welding works on site.

### **Official Language**

English will be the official language medium of the workshop.

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### *Fees & Registration*

Registration rates are devised, please make your reservation now.

	HKISC	HKIE members or group registrations of 5+	Non-member
Registration Fee	HK\$ 500	HK\$ 600	HK\$ 800

The registration includes a copy of the lecture notes, half-day CPD certificate and tea refreshments.

Should you have further query, please do not hesitate to contact Mr. Sam CHAN at [samchan@hkisc.org](mailto:samchan@hkisc.org).

### **Programme**

Time	Programme
1:45 pm	Registration
2:15 pm	Introduction to Welding Consumables
2:45 am	Welding electrode selection variables 1
3:15 pm	Welding electrode selection variables 2
3:45 pm – 4:00 pm	Tea Break
4:00 pm	Case Studies : Selection of welding electrode
4:30 pm	Monitoring Correct use of electrode in construction sites
5:00 am	HK Regulations governing welding consumables
5:30 pm	Q & A
5:45 pm	End

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**REGISTRATION FORM**  
**( To be replied on or before 26 October 2016 )**

Please follow the 2-step registration procedure:

1. Fax the completed registration form to *Mr Sam CHAN* (Fax: 852-2334 6389) for preliminary registration.
2. Post the completed registration form within 7 days together with a crossed cheque payable to **Hong Kong Institute of Steel Construction Limited** to *Mr Sam CHAN* at:

HKISC c/o Room ZS 972, Department of Civil and Environmental Engineering,  
The Hong Kong Polytechnic University, Hunghom, Kowloon, Hong Kong, China.

**on or before the deadline.**

**To: Mr Sam CHAN**

**Fax: 852- 2334 6389**

Personal Details:

Title	Name in full (Block Letter)	Name of Company	Tel.	Fax	E-mail address	Institution/ Membership No.
1.						
2.						
3.						
4.						
5.						

Item	Total no. of registration	Sub-total
1. Regular registration (Member*price)	_____ person(s)	= HK\$ _____
2. Regular registration (Non-member price)	_____ person(s)	= HK\$ _____

Postal Address  
(for official receipt):

I enclose a crossed cheque (no. \_\_\_\_\_ ) with a sum of HK\$ \_\_\_\_\_ for the registration fee of the captioned Seminar.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**CPD Certificate of Attendance** Please tick the appropriate box to indicate your choice:

Yes, I/ we would like to have CPD certificate(s).  Not request for certificate(s).