INTRODUCTION

Importance of infrastructural provisions in support of township/large-scale housing developments.

In any large-scale public or private housing developments, physical infrastructure such as earthworks, roads, drains, sewers and utilities, are critically needed not only to enable the physical development of but also support modern community living in the new housing estates. In fact, no development can function properly and effectively without the timely provision of adequate infrastructural facilities and public utilities.

Comprehensive and well-coordinated Infrastructure planning is a prerequisite in developing a new town or housing estate and is carried out in tandem with the master town planning and well in advance of any physical developments. It serves to establish the full infrastructure requirements and guide their timely implementation thereby ensuring quality, efficiency and costeffectiveness in the infrastructure provisions for the proposed development.

OBJECTIVES

Equip participants with the fundamental knowledge in infrastructure planning by introducing them to the key aspects in the planning processes.

COURSE OUTLINE

- 1. Starter on land-development infrastructure
- 2. Infrastructure Development Process
- 3. Infrastructure Implementation Framework
- 4. Consultation with relevant authorities and utility providers
- 5. Planning processes & technical considerations for key infrastructure
- 6. Infrastructure Programming and key considerations
- 7. Coordination of utilities services
- 8. Summary and Conclusion



DETAILS

Date	: 17 December 2020		
Time	: 9.00AM - 5.00PM		
Duration: 6 hours (1 day training)			

Venue : IES Academy@Jurong East

80 Jurong East Street 21, #04-10 Devan Nair Institute for Employment and Employability Singapore 609607

CPD : 6 STU (Structural) / 6 PDU / 6 CEng (PDU)

Fee (include GST): IES Member: \$267.50 Non-member: \$321.00 CIJC Member: \$288.90

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

Contact Person: Joyce Foo DID: 6461 1238 | Main Line: 6463 9211 E-mail: joyce.foo@iesnet.org.sg_

TRAINER'S PROFILE



Er. Ong Say Khim

Er. Ong Say Khim graduated from The City University in London, UK with B Sc (Hons) in Civil Engineering and is a registered Professional Engineer since 1983.

He started his civil engineering career working in the Housing & Development Board (HDB), the public housing authority of Singapore. He worked in HDB for 39 years and has gained extensive hands-on knowledge and experience in the development of various major and minor infrastructure works in support of HDB's island-wide public housing development and redevelopment programmes.

He undertook infrastructure planning from scratch for a number of HDB new towns, including redevelopment of HDB's matured housing estates. His in-depth knowledge and expertise include infrastructure planning, detailed design, construction supervision and project management of various major and minor infrastructure works in the HDB towns and estates.

One Day Course on Infrastructure Planning for Township/Large-Scale Housing Developments (38th Run)

** Supported by SFC & UTAP

Date: 17 December 2020 (Thursday) Time: 9.00AM – 5.00PM

Venue: IES Academy@Jurong East

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 \$267.50

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 \$321.00

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 \$288.90

Please register online/email the completed form by 10/12/2020 before 3pm to:

Contact Person:Joyce Foo IES Academy@Jurong East 80 Jurong East Street 21, #04-10 Devan Nair Institute for Employment and Employability Singapore 609607 Tel: 6463 9211

Participant Details

*Name	:	*NRIC	:	
	(Please written in BLOCK Le	etter)		
Company	:	*Designatio	n :	
*Address 1				
	(For mailing of invoice and re	ceipt)		
*Postal Code	:	Sex :	Male / Female	
*Contact No.	:	Fax :		
*Your Email	:			
	(For sending of confirmation e	email, preferable personal unless company	sponsored)	
Please indicate:	\Box IES members	IES M'ship No.:	RE/RTO/P.E.No	(if applicable)
	□ Non-members	Affiliated member:		
Sponse	ored by company (Please indicate i	the Contact person detail)		
Contact Perso	on Details (if different fron	n participant)		
#Name	:	#Designation	:	
#Contact No.	:	Fax :		
#Email	:			
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	lusive of 7 % GST.			
~ Cheque make pa	ayable to <mark>"Engineers Singapore F</mark>	Pte Ltd"		
		Registrations of IES Academy	<u>s Events</u>	
I agree to abide by	y the Terms and Conditions for Reg	gistration of IES Academy's Events.		

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

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:

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

Please visit <u>HERE</u> for more information on UTAP claim.

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) 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.