

Excavation Construction Works and Worksite Safety & Health Practices

1st Run

(Virtual Classroom)

**** UTAP – in Application, subject to Approval**

****SkillsFuture(SFC) – This course is NOT SFC Supported**



Part 1: Excavation and Construction Works for Building Basements and Civil Engineering Projects (Structural, 6 Hours)

Course Objective

The purpose of this course is to provide supervisory management and site personnel with an understanding of excavation and construction works commonly undertaken for building basements and civil engineering works in Singapore. It will include trench excavation for utilities, excavation for building basements and deep excavation for civil engineering projects like MRT stations.

The course is useful and relevant to developers, contractors, specialist builders, project managers, site supervisors, Resident Engineers, Resident Technical Officers, and those who are involved in building basement construction and infrastructural underground projects.

Course Outline

- 1) Introduction to excavation and construction works and management within urbanized environment
- 2) Types of earth-retaining structures (e.g flexible and rigid walls)
- 3) Structural support systems (e.g struts and anchors)
- 4) Excavation and construction sequence (e.g top-down and bottom-up)
- 5) Instrumentation and monitoring
- 6) Construction effects and common problems
- 7) Obligatory requirements relating to excavation works

Profile of Speaker

Er. Yang Kin Seng was a former Director with the Building and Construction Authority, regulating and overseeing the safety of buildings and geotechnical building works under construction in Singapore, and headed the Singapore Geological Office. Er. Yang has also served with the now-defunct Public Works Department as Assistant Chief Civil Engineer, Head (Roads, Planning and Design) and Head of Geotechnical Engineering, Site Investigation, Instrumentation and Laboratories. His involvement in civil, building and infrastructural projects ranges from roads, flyovers, bridges and expressways, including Changi Airport development, construction of schools and CTE tunnels, to parks and government buildings, as well as overseas projects in China and Brunei. He was the Chief Project Manager (Singapore) for the Singapore-Malaysia Second Crossing. He has published more than 40 papers in International conferences and seminars, and peer-reviewed journals. Er. Yang was awarded Public Administration Medal (Silver) in 1998.

Details

Date : 26 & 27 Jan 2022, Wed & Thurs

Time : 1.00pm to 6.30pm

Duration: 10 Hours

Delivery Mode: Zoom Webinar

CPD: 2 STU(Safety) - Confirmed

6 STU(Structural) - Confirmed

10 SDU - To Be Confirmed

10 PDU - Confirmed

Course Fee (Include GST)

IES Member: \$299.60 nett

Non-member: \$342.40 nett

E-certificate of Attendance will be awarded to participants who have completed the course survey and assessment.

Target Audience

- Resident Engineer & Resident Technical Officer
- Contractor PM, Site Engineer and
- Specialist Contractor (Demolition, Piling, Excavation etc)

IES Academy@Jurong East

80 Jurong East Street 21, #04-10

Devan Nair Institute for Employment and Employability Singapore 609607

Contact Person: Karen Phua

DID: 6461 1239 Main Line: 6463 9211

E-mail: karen@iesnet.org.sg

Er. Yang was a Colombo Plan Scholar, and graduated with BEng (First Class Hons) in Civil Engineering from University of Melbourne and a recipient of Trinity College Scholarship, CWN Sexton Scholarship, AJ Francis Prize and an Exhibition Prize. Er. Yang was also a Commonwealth Scholar, and obtained MSc (Distinction) in Soil Mechanics and Engineering Seismology and awarded the Soil Mechanics Prize from Imperial College London. He also obtained MSc (Civil Eng) from NUS, and LLB (Hons) from University of London.

Er. Yang co-chaired the SPRING (Singapore) Eurocodes Review Advisory Committee, and the Technical Committee on Civil and Geotechnical Works. He is a Professional Engineer and a Specialist Professional Engineer registered with the Professional Engineers' Board, and a Specialist Accredited Checker whilst in Building and Construction Authority. Er. Yang has been conducting many courses for industry practitioners at the BCA Academy since 2007, as well as for IES, ACES and corporates.

Part 2: Effective Worksite Safety and Health Practice (Safety, 4 Hours)

Course Objective

The objective of this module is to inculcate Effective Workplace Safety and Health (WSH) mindsets through lectures, interactive sharing and group discussions. The module will increase awareness of effective risk management within a construction worksite, enabling participants to better manage safety and fire safety on site.

Course Outline

1. Legislative Requirements for Risk Assessment and Management at worksite
2. Understanding Job Hazard Analysis, Risk Identification, Risk Analysis, and Risk Evaluation
3. Developing Work Procedure, Safe Work Procedure, Safe Work Method Statement
4. Control of Fire Safety Related Works & Documentation

Profile of Speaker

Associate Professor, Dr. SIN Siang-Meng, Ivan is currently the program chair professor for the MSc (Safety, Health & Environmental Technology) with the Department of Chemical & Biomolecular Engineering, National University of Singapore. As a certified and experienced emergency operation commander, crisis-emergency planner, fire-explosion Investigator, business continuity practitioner, Dr. SIN comes with more than 28 years of experience in government services and industry practices with the Singapore Civil Defence Force (SCDF), Monetary Authority of Singapore (MAS), Consultant Firm as Head (Hazardous Materials Program), Assistant Director (Crisis & Contingency Planning), Regional Head (EHSS & Business Resilience), and Consultant to projects. His areas of interest are in organization & business resilience, enterprise risk & resource management, corporate crisis and emergency management, business continuity & recovery management, workplace safety & health management, and chemical & process safety management. He is actively involved in various capacities with professional organizations such as the Fire Safety Managers' Association of Singapore (FSMAS), Society of Loss Prevention for Process Industries (SLP), Institution of Fire Engineers (IFE-UK), Institution of Chemical Engineers (IChemE-UK), Association of Company Emergency Response Teams Singapore (A-CERTS), and Technical Committee/Workgroups of ESG Singapore Standards.

Target Audience

This course will benefit Construction Stakeholders (especially Resident Engineers, Resident Technical Officers and Resident Architects) involved in supervising the construction work.

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Date: 26 & 27 January 2022, Wednesday & Thursday

Time: 1.00pm to 6.30pm

Delivery Mode: Zoom Webinar

Course Fee(include GST): IES Member: \$299.60 Nett Non-member: \$342.40 Nett

Please register online/email the completed form by **17 January 2022 before 3 pm** to:

Contact Person: Karen Phua

IES Academy@Jurong East

80 Jurong East Street 21, #04-10

Devan Nair Institute for Employment and Employability Singapore 609607

Tel: 6463 9211 Email address: karen@iesnet.org.sg

*Name : _____ *NRIC : _____
(Please written in BLOCK Letter)

Company : _____ *Designation _____

*Address 1 : _____
(For mailing of invoice and receipt)

*Postal Code : _____ Sex : _____ Male / Female _____

*Contact No. : _____ Fax : _____

*Your Email : _____
(For sending of confirmation email, preferable personal unless company sponsored)

Please indicate: IES members IES M'ship No.: _____ P.E. No.: _____ (if applicable)
 Non-members Affiliated member: _____
 Sponsored by company (Please indicate the Contact person detail)

Contact Person Details (if different from participant)

#Name : _____ #Designation : _____

#Contact No. : _____ Fax : _____

#Email : _____

Payment Details

Bank / Cheque No : _____ Amount (\$): _____

~ All Fees are inclusive of 7 % GST.

** Cheque should be made payable to "**IES Academy 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 : _____

***Mandatory entry**

#Compulsory Entry for participant who choose to be INVOICE to your company

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 **IES Academy 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.

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 [HERE](#) for more information on 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.