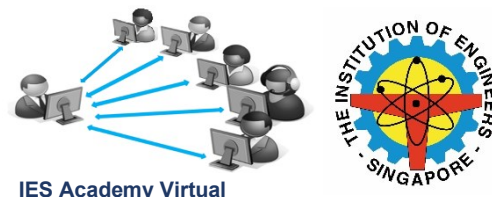


# Excavation Construction Works and Worksite Safety & Health Practices 7th Run (Virtual Classroom)

**\*\* This course is UTAP Funded**

**\*\*SkillsFuture(SFC) – [TGS-2022013832](#)**



## 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 : 16 & 17 April 2025, Wed & Thurs**

**Time : 16 Apr 2025 1.00pm to 5.30pm  
17 April 2025 9.00am to 4.30pm**

**Duration: 10 Hours**

***Delivery Mode: Zoom Webinar***

**CPD:**

**2 STU(Safety) – To Be Confirmed**

**6 STU(Structural) – To Be Confirmed**

**10 PDU(PEB & CEng) – To Be Confirmed**

***This course DO NOT HAVE SDU Points***

**Course Fee (Include GST)**

**IES Member: \$359.70 nett**

**Non-member: \$403.30 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](mailto: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.

# Excavation Construction Works and Worksite Safety & Health Practices 7th Run (Virtual Classroom)



**Date & Time:** 16 April 2025, Wednesday 1.00pm to 5.30pm

17 April 2025, Thursday 9.00am to 4.30pm

**Time:** 16 A1.00pm to 6.30pm

**Delivery Mode:** Zoom Webinar

**Course Fee(include GST):** IES Member: \$359.70Nett Non-member: \$403.30Nett

Please register online/email the completed form by **8 April 2025 before 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 : \_\_\_\_\_

\* Contact No. : \_\_\_\_\_ Gender : \_\_\_\_\_ Male / Female \_\_\_\_\_

\*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 ☐ Sponsored by company


## Contact Person Details (if different from participant)

Name: \_\_\_\_\_ Designation: \_\_\_\_\_

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

## Payment Details

Payment via bank transfer or PayNow. All Fees are inclusive of 9% GST. (we no longer accept cheque)

<b>Beneficiary: IES Academy</b> <b>Pte Ltd Bank: United</b> <b>Overseas Bank SWIFT:</b> <b>UOVBSGSG</b> <b>Bank Code: 7375</b> <b>Branch Code: 016</b> <b>Bank Account number: 339-326-153-4</b>	<b>PayNow:</b> <b>IES Academy Pte Ltd</b> <b>UEN:202026912H</b> 
--	--

## 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 **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.

**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.