



Piling Works, Design & Testing Following Eurocodes and Safety & Your Legal Obligations 10th Run

By Er. Yang Kin Seng & Ms Sangeetha Pusphanathan

Date: 17 & 18 August 2022, Wednesday & Thursday

Time: 17 August 2022: Virtual from 4.00pm to 6.00pm

18 August 2022: Physical course from 9.00 am to 6.30pm at Orchard Hotel Singapore or Similar Class

Address of Orchard Hotel Singapore (18 August 2022): 442 Orchard Road, Singapore 238879

CPD Programme: 2 STU(Safety), 6 STU(Structural) - Confirmed
10 PDU(PEB & CEng) - Confirmed

Fees: \$374.50 (IES Members) \$428.00 (Non-Member)

- *Actual venue (hotel) will be stated in the confirmation email which will be sent to paid participant 2 weeks prior to event date*
 - *Please note that attendance for both the courses are compulsory, Certificate of Attendance will be issued to participants with 100% attendance for both courses*
 - **This is a blended course comprising 3 hours of zoom session and 7 hours of physical course at hotel.**
 - **This course is UTAP Supported**
 - **This course DOES NOT award SDU points**
 - **This course is SFC Funded [TGS2021005899](#)**
 - **All Attendees must be fully vaccinated in order to attend the physical course at hotel. There will be NO refunds of any course fees should the Attendee be denied entry to the hotel due to incomplete vaccination status.**
 - **Course fee to be paid at least 21 days prior to event for individual or Company Sponsored Participants failing which seat will be auto-release without further notification**
- 2 Coffee Breaks (set) at hotel
 - 1 Buffet Lunch at Café (subject to Government's regulation at time of event)
 - Special Parking Rates at Hotel
 - Food at Orchard Hotel Singapore is NO Pork NO Lard

Part 1: Piling Works, Standards and Specification (3 Hours)

Objective

This course is organised to prepare Site Supervisors, Resident Engineers and Resident Technical Officers on piling works and pile testing in accordance to Eurocodes.

The participants will be able to appreciate and understand the standards and specification including Intelligent National Productivity and Quality Specification for piling works relating to displacement and non-displacement piles.

Course Outline

- Types of Piles
- Eurocodes
- Execution standards and specification
- Testing of piles
- Inspection, checking ground conditions and construction
- Communication and reporting

Part 2 : Piling Practices, Design and Testing (3 Hours)

Objective

This course is organised to give an understanding on the design considerations and local practices of foundation piles. The course will include ultimate limit state and service limit state design aspects of axially loaded and laterally loaded piles following Eurocodes.

Course Outline

- Introduction
- Piling local practices
- Design considerations
- Axially loaded piles
- Laterally loaded piles

Target Audiences

This course will benefit civil and structural practitioners, builders, Site Supervisors, Resident Engineers and Resident Technical Officers involved in piling works following the Eurocodes

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.

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 3: Safety & Your Legal Obligations (4 Hours)

- Get a refresher on the safety related statutory duties imposed on RE/RTOs and PEs under the Building Control Act and Regulations
- Learn about the latest amendments to the Building Control Act 2020
- Understand how to mitigate and manage the requirements of the Building Control Act
- Learn about your construction related tortious duties under the common law
- Understand how to mitigate and manage the legal standards under the common law

Course Outline/Outcomes

As professionals and business men, you are used to risk taking in projects and at the work place. As risky as it is doing the design for a 40 storey mega project, practitioners are sometimes faced with a different type of risk: **LEGAL DUTIES**

This module will equip participants with the necessary tools to understand and manage the safety standards and risks imposed on them under the law

1. Building Control Act & 2020 Amendments
 - a. Building Control Regulations 2003
 - b. Building Control (Temporary Buildings) Regulations

- c. Building Control (Inspection of Building) Regulations
 - i. Statutory duties imposed on RE/RTOS
 - ii. Statutory duties imposed on PEs
 - iii. Penalties and Consequences
 - iv. Mitigating circumstances
2. Common law duties on safety
 - a. Law of negligence – latest developments
 - b. Law of confidentiality
 - c. Law on corruption
 - d. Changing legal standards

CV OF SPEAKER

Ms Sangeetha Pusphanathan was called to the Singapore Bar in 2008 (Advocate and Solicitor of the Supreme Court of Singapore) after obtaining her law degree from the National University of Singapore in 2007 and also making it to the top 20 of the bar exams. She was also awarded the F.A. Chua Prize for the best student in criminal procedure during the bar exams.

She is currently working as a data privacy lawyer for a multi-national European company. Formerly, she held the role of Deputy General Counsel and was employed with the Building and Construction Authority (BCA) where she has advised on and reviewed building control laws, prosecuted building control offences, and involved in legislative amendments to several BCA legislation. She also has private sector experience in both the petrochemical industry as well as banking and financial sector.

With her sound knowledge of local laws, she conducted annual core competency legal training workshops for 6 years straight in BCA for engineers and staff on various aspects.

In her free time, Sangeetha hosts events and forums.

Her natural vibrant personality, cheerful disposition and bevy of examples keep her workshops engaging, fun and a mark above the rest!

Pre-requisites

Prior to attending this course, you should:

- Have a PC / laptop / tablet / smart phone with built-in or external webcam.
- Installed the zoom client.
- Have Wi-Fi / high speed internet connection available.
- Receive an email with a link for you to submit a registration for webinar 1 week prior to the commencement.

Receive an email with a link and password for you to join the webinar session after your registration

Pre-requisites for Zoom session on 18 August 2022 from 3.00pm to 6.00pm

Prior to attending this course, you should:

- Have a PC / laptop / tablet / smart phone with built-in or external webcam.
- Installed the Zoom client.
- Have Wi-Fi / high speed internet connection available.
- Receive an email with a link for you to submit a registration for webinar 1 week prior to the commencement.
- Receive an email with a link and password for you to join the webinar session after your registration is successful.
- ***It is recommended that participants join the course on a 12-inch or larger screen in order to view clearly the text and photos in the presentation materials.***
- ***ALL PARTICIPANTS ARE REQUIRED TO KEEP WEBCAM OR CAMERA TURNED ON DURING 3-hours of zoom, FAILING OF WHICH THE E-CERTIFICATE OF ATTENDANCE WILL NOT BE ISSUED and names will not be submitted to PE Board (if Attendees are Professional Engineers)***

Target Audience

Consultant engineers & supervisors; Developers; Resident Engineer & Resident Technical Officer; Contractor PM, CM, site engineers & supervisors.

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(Please note Res/RTOs are registrars of IES but NOT members of IES)

Please register online/email in the completed form by 8 Aug 2022 to:

Karen Phua, karen@iesnet.org.sg

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)

Tel: _____

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: **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: _____

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 2 week prior to event commencement date or earlier. Cheques should be crossed 'A/C payee only' and made payable to '**IES Academy 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 12 days 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 16 Days 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.

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.