



Impact onto existing bridge within the influence zone of construction works and special ground conditions And Chemical Risk Assessment and Management at Worksite 3rd Run

By Assoc Professor, Dr. SIN Siang-Meng
Er. Chew Boon Fei

Date: 30 Nov & 1 Dec 2022, Wednesday & Thursday

Time: 30 Nov 2022: Virtual via Zoom from 3.00pm to 6.00pm

1 Dec 2022: Physical course from 9.00am to 6.00pm at Orchard Hotel Singapore

Address of Orchard Hotel Singapore (1 Dec 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 [TGS-2022013835](#)**
- **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.**

- 2 Coffee Breaks 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

Impact onto existing bridge within the influence zone of construction works and special ground conditions (Structural, 6 Hours)

Course Objective

The purpose of the course is to provide an understanding of the possible impact onto bridge structures within the influence zones of the construction works and special ground conditions.

Course outline

- (1) A brief introduction to common bridge types and elements
- (2) Basic instrumentation and monitoring to the bridge
- (3) Types of works affecting the bridge with case studies
- (4) Types of special ground conditions affecting the bridge with case
- (5) Structural Impact assessment to the bridge
- (6) Actions and Mitigation measures
- (7) Q&A

Target Audience

The course is useful and relevant to developers, contractors, project managers, site supervisors, Resident Engineers, Resident Technical Officers and Civil and Structural Engineers who involve in civil engineering works

Profile of Trainer

Boon Fei is a registered Singapore Professional Engineer. She has won a Design and Engineering Safety Excellence Award from Building Construction Authority for her Sentosa Boardwalk Project and ACES Excellence Design Award for Keppel Viaduct Widening. She acts as Qualified Person (Permanent Work Design), Professional Engineer and Superintending Officer for several Singapore infrastructure projects.

Boon Fei has 24 years of engineering design and project management experiences relating to bridges, underground cut and cover tunnels, marine infrastructures, buildings (low and high rise residential, industrial commercial), process and chemical plants (oil/gas/chemical complexes and odour treatment plant) and major temporary works in Singapore and overseas.

Effective Chemical Risk Assessment and Management at Worksite (Safety, 4 hours)

Course Objective

The objective of this module is to inculcate Effective Chemical Risk Assessment and Management mindsets through lectures, interactive sharing and group discussions. The module will increase awareness of effective risk assessment procedures dealing with chemicals and the management approaches within a construction worksite, enabling participants to better manage chemical safety on site.

Course Outline

1. Legislative Requirements for Risk Assessment and Management at worksite
2. Understanding Chemical Risk Assessment (CRA)
3. Developing Chemical Risk Register, Control Measures, Safe Operating Procedure
4. Control of Chemical Safety Related Works & Documentation

Target Audience

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

Profile of Trainer

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

Pre-requisites for Zoom session on 30 Nov 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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Date: 30 Nov and 1 Dec 2022, Wednesday & Thursday
Time: **30 Nov 2022 via Zoom(Virtual) from 3.00pm to 6.00pm**
1 Dec 2022 at Orchard Hotel Singapore(Physical) 9.00am to 6.00pm

Address: Orchard Hotel Singapore, 442 Orchard Road, Singapore 238879

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

This course DO NOT HAVE SDU Points

Fees*: \$374.50 (IES Members) \$428.00 (Non-Members)
(Please note Res/RTOs are registrars of IES but NOT members of IES)

Please register online/email in the completed form by 14 Nov 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

Important: 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.

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 2 weeks 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 2 weeks 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.

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.