

Environmental Health Concerns from Construction Sites – Air and Water Pollution



Date: 25 Jun 2019 (Tuesday)

Time: 6.15pm – 9.30pm

Fees: \$128.40 (IES Member) \$149.80 (Non-Member)

CPD: 2 STU(Safety)/3 SDU /
3 PDU

Funding Support:
UTAP Funding Only

Venue: IES Academy@ Jurong East
80 Jurong East St 21 #04-10
Devan Nair Institute Singapore 609607

*Fees inclusive of 7% GST, course materials,
Lunch and Refreshments.

*Certificate of Attendance will be given to
participants with **100%** attendance.

Course Objectives

The construction industry is important to Singapore's economic growth, contributing nearly 5% of GDP in 2015. During construction, however, projects could pose a significant risk to the environment, potentially causing pollution to the air and water. Construction practices that inadequately address these issues of pollution can have damaging implications, such as adversely affecting the health of workers on-site, neighbouring communities and contaminating our waterways and land. A balance between operational and environmental concerns is therefore crucial to ensure that timely completion of projects does not come at the cost of endangering our health and environment.

This course aims to highlight the key environmental concerns relating to air and water pollution from construction sites. The scope of the course will cover sources and activities on worksites that generate pollution, as well as the impact of this pollution on our environment. Regulations, management and control measures to address these pollution concerns will also be discussed.

Target Audience

This course is suitable for **site supervisors, engineers and technical officers**. Participants will acquire the necessary knowledge on construction-related environmental health risks that will allow them to effectively work with Environmental Control Officers (ECOs).

The course is also suitable for **ECOs** who wish to gain additional background knowledge on specific aspects of their job scope.

Trainer's CV

Dr Edmund Low received his PhD in Environmental Engineering from Yale University. He currently lectures at the National University of Singapore, on topics ranging from quantitative methods to environmental pollution. He has more than 10 years of research and professional experience spanning the application of computational modelling and engineering principles to address issues in public health, air and water quality. Prior to his current appointment, he was senior engineer at the National Environment Agency, where he was involved in environmental monitoring and assessment programmes in Singapore, including the setting up of the country's first islandwide continuous coastal water quality monitoring system. He has provided advice for formulating control strategies against pollution sources, and has also carried out impact assessment studies of climate and urban land use changes on Singapore catchments.

Course Outline

1-Introduction

- ❑ Pollution impact of construction activities
- ❑ Importance of considering impact of construction activities on our environment

2- Air pollution from construction sites

- ❑ Sources and activities that contribute to air pollution, e.g. operating diesel equipment, demolition, burning, usage of toxic materials
- ❑ Characteristics and properties of pollutants generated, e.g. carbon monoxide, particulate matter, nitrogen oxides

3- Water pollution from construction sites

- ❑ Sources and activities that contribute to water pollution, e.g. diesel and oil, chemicals and solvents, construction debris
- ❑ Indicators of water pollution, e.g. total suspended solids, pH, BOD

4- Impact of pollution on the environment

- ❑ Environmental impact of air pollutants generated from construction sites
- ❑ Impact of water pollutants generated on runoff and waterways

5- Regulations on pollution from construction sites

- ❑ Environmental Protection and Management Act and relevant regulations
- ❑ Sewerage and Drainage Act and relevant regulations
- ❑ Air quality targets, permissible limits for discharge into watercourses

6- Management and control measures

- ❑ Ways to manage and control air pollution from construction sites, e.g. use of low sulphur fuel for diesel engines, minimising dust generated from constructed works
- ❑ Ways to manage and control water pollution from construction sites, e.g. erosion and sediment control

Registration Form

Environmental Health Concerns from Construction Sites - Air and Water Pollution 5th Run

Date: 25 JUN 2019 (TUESDAY)
Duration: 3 Hours
Time: 6.15PM-9.30PM
CPD Programme: 3 SDU / 2 STU (Safety) / 3 PDU
Venue: IES Academy @ Jurong East
Course Fee: \$128.40 (IES Member) / \$149.80 (Non-Member)
Course Coordinator: Verline Chiam
64604241
verline.chiam@iesnet.org.sg
Last Date of Registration: 17 JUN 2019

Participant Details

*Name (as per NRIC): _____ *NRIC/FIN No: _____
*Designation: _____ RE/RTO/PE No: _____
Company: _____
*Address: _____

*Email: _____ Postal Code: _____
*Contact No: _____ Fax: _____
Please Indicate: IES Member No: _____
 Non-member Vegetarian

Contact Person (HR or Finance if sponsored by company or if applicable)

Name: _____
Tel: _____ Fax: _____
Email: _____
Address: _____

Payment Details

Nets / Cheque No: _____ Amount: _____
 Sponsored by company
• All fees inclusive of 7% GST
• Cheques should be made payable to "Engineers Singapore Pte Ltd"
• Please note that 100% attendance is compulsory for all participants

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 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:

Att: Verline Chiam

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 skills 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.