FORMWORK DESIGN AND SAFETY WITH CODE OF PRACTICE SS580:2012 QSS-32nd RUN

Formwork structures have always been a highly hazardous item in the construction industry. Continuing failures of formworks in Singapore have raised considerable alarm in the industry, the government and the public. To address these concerns, and to update an outdated Code of Practice for formwork, a Workgroup was formed in 2012 to develop a new Code of Practice, SS580. This one-day course on formwork design and safety to revised standards and EuroCode aims to accomplish the following: Provide background material to and useful information on improved standards in this area for this critical topic in workplace safety; Present the basics of safe design of formwork structures and essential design requirements of SS580; Describe significant parts of the new Code of Practice for Formwork SS580:2012 to facilitate its use by designers and constructors; Review a number of failure of formworks in Singapore and abroad to convey an understanding of causes; Discuss techniques to identify and evaluate the hazards, and manage the risks; and, Offer practical guidelines for good practice in formwork design, erection, use, dismantling, inspection, and supervision. The focus will be on basic concepts and procedures currently in use for formwork in the construction industry. Objectives will include identification of principal contributory factors to formwork failures and their underlying root causes, and discussing how the new Code can eliminate or alleviate the problems.

Venue
IESA@JURONGEAST

Date and Time
12 Jun 2018 to 12 Jun 2018
0900 to 1730
9AM TO 5.30PM
12 June 2018

Contact Details
Contact Person: Verline Chiam
Email: verline.chiam@iesnet.org.sg
Phone: 64604241 (DIRECT) 64639211 (MAINLINE)
Fax:

Design Of High-Rise Buildings (1st Run)

This is a 2-part programme comprising (Part 1) Preliminary design of high-rise buildings and (Part 2) Introduction to seismic design. The programme aims to allow participants to understand the importance that Structural needs to be addressed at the preliminary design stage of the project and to know the effect of distant earthquakes on buildings in Singapore.

Venue
80 Jurong East St 21 #04-10
Devan Nair Institute S(609607)

Date and Time
19 Jun 2018 to 19 Jun 2018
0900 to 1715
9.00am - 5.15pm
19 June 2018, Tuesday

Contact Details
Contact Person: Lee Woon (Ms)
Email: hon.lw@iesnet.org.sg
Phone: 64611250 / 64639211
Fax:

Risk Management Update with Code of Practice QSS 34th Run

Ever since the Workplace Safety and Health Act was enacted in Singapore in 2006, the safety scene in Singapore has been revolutionized. Starting with the introduction of mandatory risk management for the three hazardous industries namely, construction, manufacturing, and shipyards, the requirement was extended to six other sectors including medical facilities and eating places in 2008, and in September 2011 it covered all
workplaces in Singapore. The Code of Practice for Risk Management was introduced in 2011, and revised in 2012. A further revision is under way and will be released shortly. While many industries have caught on to the new approach to reducing accidents and improving safety at the workplace through risk management, confusion persists in certain quarters on the scope of risk management, and the methodology for proper risk assessment and control. To guide the practitioners and broaden the coverage of the Act to all sectors, the course aims to review the procedures and recent changes to the Code of Practice. Apart from reviewing and emphasizing the previous guidelines mainly focusing on small and medium enterprises, the new Code expands the application to large enterprises, and suggests the numerical 5 by 5 risk matrix as a viable option, the most recent changes pertaining to the impact and assessment of human factors. The course will cover relevant portions of SS 506: Part 2: 2009, Singapore Standard on Occupational Safety and Health Management, pertaining to hazard identification, risk assessment and determining controls. Lecturer will bring into the course his extensive experience with risk management theory and practice.

**Venue**  
IESA@JURONGEAST

**Date and Time**  
19 Jun 2018 to 19 Jun 2018  
0900 to 1630  
9AM TO 4.30PM  
19 June 2018

**Contact Details**  
Contact Person: VERLINE CHIAM  
Email: verline.chiam@iesnet.org.sg  
Phone: 64604241(DIRECT) / 64639211(MAINLINE)  
Fax:

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Institution of Engineers, Singapore  
21 Jun 2018 to 21 Jun 2018

**Prestressed Concrete In Buildings - 14th run**

This is an intensive one-day course on the design of beams and slabs for use in buildings. Both pre-tensioning and post-tensioning are discussed.

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

**Date and Time**  
21 Jun 2018 to 21 Jun 2018  
0900 to 1715  
9.00am - 5.15pm  
21 June 2018, Thursday

**Contact Details**  
Contact Person: Lee Woon (Ms)  
Email: hon.lw@iesnet.org.sg  
Phone: 64611250 / 64639211  
Fax:

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Institution of Engineers, Singapore  
25 Jun 2018 to 25 Jun 2018

**Cracks In Concrete - Causes, Prevention, Inspection & Rectification 26th Run**

The objective of the course is to impart knowledge to the participant on the causes, prevention, inspection and rectification of cracks in concrete. In particular, cracking in concrete is explained and the allowance of its formation in design is covered. Cracks formed arising from workmanship issues are also covered. Appropriate references will be made to the Singapore Standard SS EN 1992 series on Eurocode 2 Design of concrete structures that allow cracks to form and possible ways of preventing cracking is also covered. Emphasis on how to assess the severity of the crack through a methodological approach is covered. Finally, various methods of rectification of the crack lines are covered including the appropriateness of the method to the type and nature of the crack being considered.

**Venue**  
IESA@JURONGEAST

**Date and Time**  
25 Jun 2018 to 25 Jun 2018  
0900 to 1630  
9AM TO 4.30PM  
25 June 2018

**Contact Details**  
Contact Person: VERLINE CHIAM  
Email: verline.chiam@iesnet.org.sg  
Phone:
Facade For Engineers

Building envelopes have repeatedly been in the limelight over the past few months as a result of multiple failure events involving material defects, fire performance issue or poor workmanship. The Institution of Engineers, Singapore is organising a seminar on faade engineering. The intention of this seminar is to raise the awareness of participants in the various facets of faade engineering. This seminar is addressed to professional engineers, IES members and any other engineers with an interest in gaining a greater understanding of faade engineering. Topics covered will include the engineering of aluminium, glass, fire performance, and anchoring technology.

Venue
Holiday Inn @ Orchid City Centre

Date and Time
27 Jun 2018 to 27 Jun 2018
1145 to 1730
1145 to 1730
27 June 2018

Contact Details
Contact Person: Ms Shelly Ng
Email: shelly.ng@iesnet.org.sg
Phone: 64611222
Fax:

Scaffold Design Basics and Safety 7th Run

To prepare site personnel to become aware of the importance of details during scaffold erection, use and dismantling, in relation to proper documentation of SWPs, incidents, etc. and direct and continuous monitoring of scaffolds and workers on them.

Venue
IESA@JURONGEAST

Date and Time
11 Jul 2018 to 11 Jul 2018
0900 to 1630
9AM TO 4.30PM
11 July 2018

Contact Details
Contact Person: VERLINE
Email: verline.chiam@iesnet.org.sg
Phone: 64604241(DIRECT)64639211(MAINLINE)
Fax:

One Day Course on Infrastructure Planning for Township/Large-scale Housing Developments 30th Run

Comprehensive and well-coordinated Infrastructure planning is a prerequisite in developing a new town or housing estate and is carried out in tandem with the master town planning and well in advance of any physical developments. It serves to establish the full infrastructure requirements and guide their timely implementation thereby ensuring quality, efficiency and cost-effectiveness in the infrastructure provisions for the proposed development. Equip participants with the fundamental knowledge in infrastructure planning by introducing them to the key aspects in the planning processes.

Venue
IESA@JURONGEAST

Date and Time
13 Jul 2018 to 13 Jul 2018
0900 to 1700

Contact Details
Contact Person: VERLINE
Email: verline.chiam@iesnet.org.sg
### Legal Duty and Negligence of Site Supervisors 15th Run

This particular module will discuss the background of this Court of Appeal case and its direct impact on site supervisors as well as their employers. The course will also provide participants with an up-to-date essential knowledge of Singapore's laws on negligence and the common law duty of RTO & RE (as well as engineers and other technical professionals) which are relevant to the engineering building construction (ECB) industries and are faced by or connected with ECB projects.

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Email: verline.chiam@iesnet.org.sg  
Phone: 64604241(DIRECT)64639211(MAINLINE)  
Fax: |

### Legal Aspects of Workplace Safety, Health & Environment in Site Supervision 17th Run

Construction industries in Singapore are highly regulated especially in relation to safety, health, and environment. It is therefore very essential that the key stakeholders including site supervisors (REs & RTOs) in the engineering building construction (ECB) industries are equipped and acquainted with up-to-date knowledge of the legal aspects of Workplace Safety, Health and Environment and are fully aware and conscious of their legal responsibilities and liabilities in order to carry out their work & duties diligently, carefully and effectively. This particular module will provide participants with an up-to-date essential knowledge of Singapore's laws and regulations on site safety, health & environmental requirements relevant to the EBC industries and the legal responsibilities and possible site supervisors.

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| IESA@JURONGEAST   | 14 Aug 2018 to 14 Aug 2018 1800 to 2200 6PM TO 10PM 14 Aug 2018 | Contact Person: VERLINE  
Email: verline.chiam@iesnet.org.sg  
Phone: 64604241(DIRECT)64639211(MAINLINE)  
Fax: |