Institution of Engineers, Singapore 11 Aug 2017 to 11 Aug 2017

TECHNICAL VISIT TO NTU SPORTS HALL - THE WAVE

Do not miss this opportunity to gain in-depth understanding on the structural/engineering innovation, techniques and technologies of Mass Engineered Timber (MET)! Come and find out about how MET can be utilized in Singapore’s built environment/construction sector!

Venue
102 Nanyang Crescent,
Nanyang Meadows (Block 102, NTU Sports Hall, The Wave)
Singapore 637820

Date and Time
11 Aug 2017 to 11 Aug 2017
1400 to 1600
2pm to 4pm (Visiting time may be bring forward to 1pm; 1300hrs)
11 August 2017, Friday

Contact Details
Contact Person: Don Chen
Email: don.chen@iesnet.org.sg
Phone: 64611259
Fax:

Building and Construction Authority 24 Aug 2017 to 25 Aug 2017

BMSMA FOR BUILDING MANAGEMENT PERSONNEL

Property and facilities management is a growing industry in Singapore. With the ever-increasing number of residential developments in Singapore, the demand for more professionally trained property and facilities management personnel is growing in tandem. To meet the high expectations of home owners and residents, building management personnel need to be well equipped with the knowledge of the governing laws and related procedures for the management of estates. In addition, it is also important for them to acquire good interpersonal communication and people management skills to manage difficult and demanding clients in a positive way. The course covers the essential procedures and laws related to estate management under the Building Maintenance & Strata Management Act (BMSMA). It also provides an awareness and understanding of the crucial people management skills necessary for building management personnel.

Venue
BCA Academy, 200 Braddell Road, Singapore 579700

Date and Time
24 Aug 2017 to 25 Aug 2017
0900 to 1730

Contact Details
Contact Person: Customer Service Officer
Email: bca_academy@bca.gov.sg
Phone: 6248 9999
Fax: 6258 0558

Institution of Engineers, Singapore 30 Aug 2017 to 30 Aug 2017

Risk Management Update with New Code of Practice QSS 29th 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. This one-day course will be useful to engineers, contractors, and other occupational health and safety professionals who wish to learn or review the existing risk management practices with special reference to the new Code. This course will update their background to meet the additional recommendations beyond the guidelines available thus far on risk assessment and control.

### BUILDING CONTROL REGULATIONS FOR SITE SUPERVISORS

This course is jointly organised by BCA Academy and the Joint Accreditation Committee (JAC) of Institution of Engineers Singapore (IES) and Association of Consulting Engineers Singapore (ACES) which accredits Qualified Site Supervisors such as Resident Engineers (RE) and Resident Technical Officers (RTO). This course is aimed at educating newly accredited site supervisors on Singapore’s legal framework for building construction and building control regulation requirements.

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<th>Venue</th>
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<tbody>
<tr>
<td>BCA Academy, 200 Braddell Road, Singapore</td>
<td>6 Sep 2017 to 6 Sep 2017 0830 to 1300</td>
<td>Contact Person: Customer Service Officer Email: <a href="mailto:bca_academy@bca.gov.sg">bca_academy@bca.gov.sg</a> Phone: 6248 9999 Fax: 6256 0558</td>
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### ADVANCES AND LATEST TECHNOLOGIES IN PILES CONSTRUCTION

Challenges in the deep foundation construction such as deep socketing in hard rock, boulder formation, limestone cavity, increasing need to construct deeper and deeper pile etc, are not uncommon in Singapore. Many of such challenges could be overcome by advances and new technologies developed over the past few years. This technical seminar aims to provide the industry with firsthand information from the experts of invited piling machine manufacturers. This seminar also aims to educate our industry with the state-of-the-art piling technologies that are available to meet the objective of increased productivity, enhanced safety and meeting high standard required for more and more challenging projects. [www.cma.sg/e/geossptilling](http://www.cma.sg/e/geossptilling)

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<tr>
<td>RAMADA HOTEL BALLROOM</td>
<td>31 Aug 2017 to 31 Aug 2017 0900AM TO 5:00PM 31 AUGUST 2017 (THURSDAY)</td>
<td>Contact Person: Geotechnical Society of Singapore Email: <a href="mailto:geoss@cma.sg">geoss@cma.sg</a> Phone: 6336 2328 Fax: 6336 2583</td>
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### Legal Duty and Negligence Liability of Site Supervisors QSS - 11th Run on 6 September 2017

The Court of Appeal in its written decision on 20 January 2011 held that a site supervisor (then known as clerk of works) owes a duty of care to the developer or owner of project and is therefore directly liable for negligence. As reported, the said site supervisor was subsequently ordered to pay S$26.5 Million compensation. This is a very significant development in law involving specifically RTOs & Res. In fact, the Court of Appeal itself had said that this appears to be the first time this role (site supervisor) has arisen for consideration in the Singapore courts. Therefore this decision is equally very significant to RTOs & Res as this is the highest court of Singapore which ruled that a site supervisor carrying out his work can be directly liable for losses! Hence it is important that all site supervisors should know about their duty of care and possible liability for damages as well as how to contain such risks of liability. This course is timely and will be useful to Res & RTOs as well as Engineers and other Technical professionals with foreign qualifications, as well as to local graduates too, and others who wish to acquire an essential knowledge of &/or be updated on the law behind the duty of care and negligence. It is even more beneficial in that the trainer in this course, who is an engineer-lawyer, has been involved in this case when it was first heard in the High Court, as he was the lawyer for one of the parties. The
trainer will share the background of the case, the principles of law involved and suggested checklist and guidelines as to how to mitigate if not avoid such possible liabilities.

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<th>Venue</th>
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<tr>
<td>Devan Nair Institute for Employment and Employability(e2i), 80 Jurong East Street 21, Singapore 609607</td>
<td>6 Sep 2017 to 6 Sep 2017 1900 to2000 pm 6 September 2017</td>
<td>Contact Person: Verline Chiam Email: <a href="mailto:verline.chiam@iesnet.org.sg">verline.chiam@iesnet.org.sg</a> Phone: 6460 4241</td>
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**Venue**

**Contact Details**

Contact Person: Verline Chiam Email: verline.chiam@iesnet.org.sg Phone: 6460 4241

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<th>Building and Construction Authority</th>
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<tr>
<td>ENVIRONMENTAL SUSTAINABILITY FOR EXISTING BUILDINGS &amp; PERIODIC ENERGY AUDIT</td>
<td>7 Sep 2017 to 7 Sep 2017 0900 to1300</td>
<td>Contact Person: Customer Service Officer Email: <a href="mailto:bca_academy@bca.gov.sg">bca_academy@bca.gov.sg</a> Phone: 6248 9999 Fax: 6258 0558</td>
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Contact Person: Customer Service Officer Email: bca_academy@bca.gov.sg Phone: 6248 9999 Fax: 6258 0558

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<th>Date and Time</th>
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<tr>
<td>CODE OF PRACTICE ON BUILDABILITY</td>
<td>8 Sep 2017 to 8 Sep 2017 0900 to1230</td>
<td>Contact Person: Customer Service Officer Email: <a href="mailto:bca_academy@bca.gov.sg">bca_academy@bca.gov.sg</a> Phone: 6248 9999 Fax: 6258 0558</td>
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<tr>
<td>Scaffold Design Basics and Safety QSS 3rd Run on 12 SEPTEMBER 2017</td>
<td>12 Sep 2017 to 12 Sep 2017 0900 to1630</td>
<td>Contact Person: Verline Chiam Email: <a href="mailto:verline.chiam@iesnet.org.sg">verline.chiam@iesnet.org.sg</a> Phone: 6460 4241</td>
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**Venue**

**Contact Details**

Contact Person: Verline Chiam Email: verline.chiam@iesnet.org.sg Phone: 6460 4241

On 1st July 2013, regulatory requirements and implementation timeline of the prescribed Green Mark Standard for Existing Buildings and periodic energy audit of building cooling system were gazetted and will take effect from 2nd Jan 2014. This course will provide participants with salient information and knowledge on the Building Control Act 2012, Building Control (Environmental Sustainability Measures for Existing Buildings) Regulations 2013, Code on Periodic Energy Audit of Building Cooling System and the Green Mark e-filing system.

**Venue**

**Contact Details**

Contact Person: Customer Service Officer Email: bca_academy@bca.gov.sg Phone: 6248 9999 Fax: 6258 0558

The Buildability legislation, effective since 1 Jan 2001, promotes the use of buildable design and new construction technologies. Under legislation, consultants involved in building projects with Gross Floor Areas (GFA) of 2,000m2 and above must comply with the minimum Buildable Design Scores (B-Score) stipulated in the Code of Practice on Buildability (COP). Since 15 Jul 2011, builders also have to comply with a minimum Constructability Score (C-Score) which encourages the use of construction technologies, methods and processes to reduce the industry reliance on foreign workers. Over the years, the buildability framework has been strengthened to require consultants to deliver more buildable designs upstream, and builders to adopt more labour-saving construction methods/technologies downstream. The course thus aims to keep participants up to date on the latest changes to the buildability framework and provides them with an understanding of the principles involved in computing the B-Score and C-Score.

**Venue**

**Contact Details**

Contact Person: Customer Service Officer Email: bca_academy@bca.gov.sg Phone: 6248 9999 Fax: 6258 0558

Although Singapore has improved its safety record considerably in the last decade, many accidents continue to cause injuries and claim lives. One of the common accident sources is scaffolding, the temporary work platform and support needed to erect a permanent structure. Most workplace accidents involve scaffolds in terms of structural collapse or of personnel being injured during the erection, use and dismantling of scaffolds. This course will cover the common types and systems of scaffolds in Singapore, and discuss the characteristics of scaffolds and other temporary structures as against the permanent structures they help to build, to understand the reasons for special care of scaffolds. Without going into actual design, the course will present the basics of structural behaviour so that participants can appreciate the vulnerable aspects of scaffolds. It will also identify the various hazards while working with and on scaffolds, and various safeguards against accidents and injuries from scaffold work. 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. All workplace safety personnel, in particular those who are involved with design, erection, and supervision of scaffolds. Developers, designers, project managers, engineers, supervisors.

**Venue**

**Contact Details**

Contact Person: Verline Chiam Email: verline.chiam@iesnet.org.sg Phone: 6460 4241
Statutory legislations such as Workplace Safety and Health Act (WSHA) and its subsidiary legislations are prepared by legal professionals. The structure of the legislation as well as various terms used in the legislation are not usually easily and fully understood in terms of their intent, meaning and implications by industry practitioners who either do not have legal background or only possess minimum legal knowledge. It is important that construction/project managers, supervisors and WSH personnel are educated with the better understanding of legal terms, implications of the WSH legislations, responsibilities of stakeholders, liabilities and penalties for non-compliances with respect to managing construction projects.

**Venue**
BCA Academy, 200 Braddell Road, Singapore 579700

**Date and Time**
13 Sep 2017 to 14 Sep 2017
0900 to 1730

**Contact Details**
Contact Person: Customer Service Officer
Email: bca_academy@bca.gov.sg
Phone: 6248 9999
Fax: 6258 0558

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**GREEN MARK FOR PARKS**

To inspire, promote and provide public recognition for sustainable landscapes, the Building and Construction Authority and the National Parks Board jointly developed the Green Mark for Parks Certification scheme. This scheme provides quantitative standards and comprehensive assessment system to evaluate the sustainability of parks. This course provides insight into the fundamentals and guiding principles of sustainable landscape design and construction, which underpin the Green Mark for Parks scheme. It aims to enable the participants to gain in-depth understanding of the requirements of Green Mark for Parks Certification scheme, including the various key indicators, measures and assessment criteria.

**Venue**
BCA Academy, 200 Braddell Road, Singapore 579700

**Date and Time**
14 Sep 2017 to 14 Sep 2017
0900 to 1730
Fee (incl of GST): S$400.00
(Lunches and refreshments will be provided)

**Contact Details**
Contact Person: Customer Service Officer
Email: bca_academy@bca.gov.sg
Phone: 62489999
Fax: 62580558

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**BUILDING SERVICES AND THEIR COMMISSIONING**

Building Services engineering brings a building to life, have a profound impact on different aspects of building performance such as end-user satisfaction, environmental impact, maintenance and utilities cost, as well as business continuity. In the modern built environment, clients require their projects to be delivered on time and within budget. Clients also want assets to be operationally-ready at handover, facilities that perform to suit their required function and buildings with high levels of performance over the long-term. A correctly executed commissioning process for Building Services is crucial to achieving these outcomes. This course will discuss the different Building Services in projects, what the commissioning process is, why it is important and how the commissioning process could be executed at each stage of project delivery. Prefabricated Building Services elements for improved productivity will also be shared.

**Venue**
BCA Academy, 200 Braddell Road, Singapore 579700

**Date and Time**
14 Sep 2017 to 15 Sep 2017
0900 to 1730

**Contact Details**
Contact Person: Customer Service Officer
Email: bca_academy@bca.gov.sg
Phone: 6248 9999
Fax: 6258 0558

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**Environmental Health Concerns from Construction Sites - Air & Water Pollution (New Course)**

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.

**Venue**

**Date and Time**

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

26 Sep 2017 to 26 Sep 2017
6.00pm - 9.15pm
26 September 2017, Tuesday

Devan Nair Institute, Singapore

26 Sep 2017 to 26 Sep 2017
6.00pm - 9.15pm
26 September 2017, Tuesday

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

Institution of Engineers, Singapore

AM half-day Chemical And Process Engineering Seminar 2017: “Challenges in the Process Industry - Key Elements of Safety Case”

This Seminar provides participants with insights into recent challenges confronting Singapore’s process industry, namely safety case implementation. For safety case implementation, experts will share selected key elements of safety case, notably process hazard analysis, quantitative risk assessment and emergency response planning. Managers, Engineers and Technical Specialists from Oil, Petrochemical, Energy and Chemicals (OPEC) cluster and associated industries/ sectors, who are responsible for production and manufacturing in general, facilities management, environmental protection, workplace safety (controlling workplace hazards) and (improving) occupational health in particular, as well as anyone who is interested to know more challenges facing the process industry.

Venue
Date and Time
Contact Details
Employment and Employability Institute (e2i), Devan Nair Institute for Employment and Employability, 80 Jurong East Street 21, Singapore 609607 29 Sep 2017 to 29 Sep 2017 0845 to1330 29 September 2017, Friday

Contact Person: Colin Fong
Email: colin.fong@iesnet.org.sg
Phone: 64611236
Fax:

Institution of Engineers, Singapore


This Seminar provides participants with professional insights into challenges confronting Singapore’s process industry, namely Energy Efficiency Improvements. For energy efficiency improvements, experts will firstly share the role and challenges of Singapore Certified Energy Manager (SCEM) and experiences in real-time energy management; followed by selected case studies. Managers, Engineers and Technical Specialists from Oil, Petrochemical, Energy and Chemicals (OPEC) cluster and associated industries/ sectors, who are responsible for implementation, prioritisation and/ or regulatory compliance of Singapore’s Energy Efficiency Regime (EnergyConservation Act ECA).

Venue
Date and Time
Contact Details
Employment and Employability Institute (e2i), Devan Nair Institute for Employment and Employability, 80 Jurong East Street 21, Singapore 609607 29 Sep 2017 to 29 Sep 2017 1230 to1730 29 September 2017, Friday

Contact Person: Colin Fong
Email: colin.fong@iesnet.org.sg
Phone: 64611236
Fax:

Institution of Engineers, Singapore

One Day Seminar - Avoiding Risks in Tunnelling and Deep Excavation Projects

This Seminar aims to provide a refresher course to engineers and site supervision personnel on the various aspects of risk management in the construction challenges in deep excavation and tunnelling works, and the common pit falls of the design and construction of the deep excavation projects to be paid particular attention to during the excavation of the projects as the first order approach to risk mitigation.

Venue
Date and Time
Contact Details
Furama Riverfront Hotel, 405 Havelock Road, Singapore 169633 (Ballroom Venus 1, 3rd Floor) 10 Oct 2017 to 10 Oct 2017 0830 to1800 10 October 2017, Tuesday

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

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