Events

**Singapore Green Building Council**

**BEX Asia 2016: SGBC Pavilion Tours**

As the largest Pavilion at BEX Asia 2016, SGBC will feature exhibiting members at the forefront of the green building movement, showcasing SGBP-certified products and technologies that can help building projects get a higher Green Mark rating. Sited at the front entrance at H10, the Pavilion weaves a holistic story of building sustainability through its exhibiting companies. The tour will start with an introduction at the BCA Pavilion, guided by BCA staff on the BCA Green Mark Version 2015, followed by a walkthrough of the exhibitors at SGBC Pavilion.

- **Day 1 (7 Sep)** - Afternoon 4pm (F&B sponsored by Aeris Cleantech Asia / KM Marketing)
- **Day 2 (8 Sep)** - Morning 10am Day 2 (8 Sep) - Afternoon 4pm (F&B Sponsored by AGC Asia Pacific Pte Ltd)
- **Day 3 (9 Sep)** - Morning 10am

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<tr>
<th>Venue</th>
<th>Contact Details</th>
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<tbody>
<tr>
<td>Sands Convention Centre, H10</td>
<td>Contact Person: Shenna Tan Email: <a href="mailto:shenna_tan@sgbc.sg">shenna_tan@sgbc.sg</a> Phone: 67325518 Fax: 67325517</td>
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**Institution of Engineers, Singapore**

**Formwork Design and Safety with Code of Practice SS580:2012 19th run**

Formwork structures have always been a highly hazardous item in the construction industry. Recent failures of formworks in Singapore have raised considerable alarm in the industry, the government and the public. This one-day course on formwork design and safety to revised standards and EuroCode aims to address this critical concern, not only of the authorities but also of builders, contractors, and developers, by accomplishing the following: Provide background to this critical topic in workplace safety Review a number of failures of formworks in Singapore and abroad to convey understanding of causes Discuss techniques to identify and evaluate the hazards, and manage the risks Provide useful information on revised standards in this area Describe significant parts of the new Code of Practice for Formwork SS580:2012 to facilitate its use by designers and contractors The focus will be on basic concepts and procedures currently in use for formwork in the construction industry. In addition, the critical aspects of formwork design with the recently increased factor of safety will be covered. 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.

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<tr>
<td>IES Academy@Jurong East, Devan Nair Institute For Employment and Employability, 80 Jurong East Street 21, #04-10 Singapore 609607 (Near Jurong East MRT)</td>
<td>20 Sep 2016 to 20 Sep 2016 0900 to1630 9am- 4.30pm 20 September 2016</td>
<td>Contact Person: Christine Lau Email: <a href="mailto:christine.lau@iesnet.org.sg">christine.lau@iesnet.org.sg</a> Phone: 6461 1238 Fax: 6563 6030</td>
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Design for Safety for Professionals (DfSP) (Two day DISP Certifiable Course)

This Competency Requirement document specifies the performance criteria, underpinning knowledge, range and context for the design, training and assessment of the Design for Safety Professionals (DfSP) Course. Learners of this course will gain the knowledge and skills for fulfilling the roles of the construction in accordance with the Guideline on Design for Safety and Health in Buildings and Structures.

**Venue**
IES Academy@Jurong East, Devan Nair Institute For Employment and Employability, 80 Jurong East Street 21, #04-10 Singapore 609607

**Date and Time**
22 Sep 2016 to 23 Sep 2016
1241 to0000
9am - 5pm
22 & 23 September 2016

**Contact Details**
Contact Person: Christine Lau
Email: christine.lau@iesnet.org.sg
Phone: 6463 9211
Fax: 6563 6030

DESIGN OF CONCRETE STRUCTURES - EUROCODES VERSUS BRITISH STANDARDS

Since 1 April 2015, all structural plans submission have to be based on Eurocode (EC) design standards. EC was developed over the last 30 years by experts from the European Union and is considered as one of the worlds most advanced and established building codes. This move is part of BCAs ongoing efforts in raising the standards of structural building design. To prepare engineers for the adoption of EC in the design of reinforced concrete structures, this workshop will approach the design of concrete structures using EC in comparison with BS 8110. The workshop will contain lectures as well as hands-on tutorial sessions to provide participants with practical design experience. This workshop is jointly organised by BCA Academy and Protective Technology Research Centre of Nanyang Technological University.

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

**Date and Time**
27 Sep 2016 to 28 Sep 2016
0900 to1730
Duration: 2 days
Fee (incl of GST): S$660.00

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

REDAS BIM Symposium 2016

The REDAS Building Information Modeling (BIM) Symposium 2016 aims to encourage the industry to adopt and implement collaborative BIM to make the quantum leap. The objective is to show how a well-executed BIM involving all value chain partners can maximize profit and minimize cost, resolve conflicts before they happen and improve productivity, quality and safety which will impact the bottom line. Invited local and overseas speakers with actual experience in implementing Virtual Design & Construction (VDC) will talk about successful overseas and local BIM projects, the challenges they faced and how they overcame and reap the benefit by unleashing the power of collaborative BIM.

**Venue**
Marina Bay Sands Expo & Convention Centre, Halls B & C

**Date and Time**
28 Sep 2016 to 28 Sep 2016
0900 to1700
9.00am - 5.00pm (Registration starts at 8.30am)
28 September 2016

**Contact Details**
Contact Person: Ms Celine Ng
Email: celine@redas.com
Phone: +65 6336 6655
Fax:

ADVANCED CONCRETE DESIGN USING EUROCODE 2

This course complements the basic course on Eurocode 2 (EC2), Design of Concrete Structures-Eurocode vs British Standard to give a comprehensive coverage of the more advanced topics in EC2. It covers the design of prestressed concrete structures, slender columns, strut and tie of concrete regions that do not conform to flexure, core walls, foundations, retaining walls, progressive collapse, as well as both prescriptive and performance-based design of fire resistance of concrete structures. In addition, this course will equip participants with fundamental understanding of structural behaviours. It also contains worked examples, where appropriate, to enable participants to grasp the full details of the design procedures. As cross reference will be made to the basic course on EC2, participants are encouraged to attend the basic course on EC2 before attending this advanced course. This course is jointly organised by BCA Academy and Protective Technology Research Centre (PTRC) of Nanyang Technological University (NTU).

**Venue**

**Date and Time**

**Contact Details**
**Building and Construction Authority**

**CODE OF PRACTICE ON BUILDABILITY**

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's 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**

BCA Academy, 200 Braddell Road, Singapore 579700

**Date and Time**

7 Oct 2016 to 7 Oct 2016

0900 to1230

Duration: 0.5 day

Fee (incl of GST): S$175.00 (Refreshment will be provided.)

**Contact Details**

Contact Person: Customer Service Officer

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Phone: 6248 9999

Fax: 6258 0558

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**Building and Construction Authority**

**GOOD INDUSTRY PRACTICES - TIMBER FLOORING**

Timber flooring is widely used in building works. Having good understanding and knowledge on the types of timber flooring, their components, the right ways to handle, install and maintain them would enable the stakeholders to improve the workmanship standards of such flooring. With the emergence of engineered wood flooring due to its superior quality, environmental friendliness and ease of handling, this course has been enhanced to cover topics on engineered wood flooring. With the revamped content, this course, which covers the salient points of two Good Industry Practices (GIP) guidebooks, namely, Timber Flooring and Engineered Wood Flooring, will further align the industry towards quality and productivity improvements.

**Venue**

BCA Academy, 200 Braddell Road, Singapore 579700

**Date and Time**


0900 to1730

Fee (Incl of GST): S$340.00# (without subsidy)
S$54.02* (with WTU funding support for eligible local participants*)

**Contact Details**

Contact Person: Customer Service Officer

Email: bca_academy@bca.gov.sg

Phone: 6248 9999

Fax: 6258 0558

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**Institution of Engineers, Singapore**

**5-DAY COURSE FOR APPOINTED PERSON - LIFTING OPERATIONS 3RD RUN**

As the Singapore Government pushes for higher productivity in various sectors, more and more cranes will be deployed at various work places. Use of cranes at site involves many people from various organisations, such as the crane manufacturer, site occupier, crane contractor, and various sub-contractors that use the cranes. According to the latest Singapore Standard on Safe Use of Tower Cranes SS 559:2010, it is crucial that one person be appointed to have overall control of the cranes. This appointed person shall be notified formally in writing of their appointment. This course is aimed at anyone who is required to plan safe systems of work, using lifting equipment and intends to take up this position as an appointed person. It is recommended that prior to attending this course, individuals should have some experience of working with lifting equipment, especially mobile cranes and tower cranes. Target Audience: Managers, engineers and safety officers involve in site planning of safe systems of work, crane selection, project management, installation, commissioning, specification and consultancy of cranes at various jobsite, such as construction, shipyard, ship repairing, A&A, Oil & Gas, etc.

**Venue**

Devan Nair Institute & BCA Academy@Braddell

**Date and Time**

17 Oct 2016 to 1 Nov 2016

0900 to1800

9.00am - 6.00pm

17, 20, 22, 26, 28 Oct and 01 Nov 2016

**Contact Details**

Contact Person: Florence Lee

Email: florence.lee@iesnet.org.sg

Phone: 6460 4248

Fax: 65636030
OBLIGATIONS AND LIABILITIES IN BUILDING CONSTRUCTION WORKS

The stakeholders of construction projects often incur liabilities due to their failure to recognise and comply with certain implied obligations which maybe arouse during the design and construction processes. It is, therefore, imperative for the project parties to understand the implied obligations and liabilities prior to the commencement of construction projects. This course will provide the participants with an insight into the obligations and liabilities of the key players in building and construction works, with focus on the Building Control Act. The course will cover the various obligations under contract, tort and statutory duty in building and construction works. The main focus will be on the regulatory framework of the Building Control Act and the recent developments of the Act. These will be discussed and illustrated with reference to the roles of various appointment holders under the Building Control Act with examples of local incidents and decided case law.

Venue
BCA Academy, 200 Braddell Road, Singapore 579700

Date and Time
17 Oct 2016 to 26 Oct 2016
1830 to 2130
4 evenings on 17, 19, 24 & 26 Oct 2016

Fee (Incl. of GST): S$780.00

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

Building and Construction Authority
18 Oct 2016 to 19 Oct 2016

BUILD SMART CONFERENCE 2016

The first day of the conference focuses on the various aspects of Design for Manufacturing and Assembly (DfMA), namely Mass Engineered Timber Construction, Prefabricated Prefinished Volumetric Construction (PPVC), Advanced Precast Construction, and Structural Steel. On Day 2, the focuses are on Lean Construction, Virtual Design and Construction (VDC) and Building Information Modelling (BIM).

Venue
Max Atria @ Singapore Expo, Level 2

Date and Time
18 Oct 2016 to 19 Oct 2016
0900 to 1700

Fee: S$400 (for 1-Day Pass) / S$770 (for 2-Day Pass)
(Discounted fee applicable for early bird registration by 9 Sep 2016)

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

Institution of Engineers, Singapore

One Day course on Working Safety at Height

Construction, shipping and manufacturing industries are the most prone to the hazards of working at height, and have attracted the most attention in Singapore's quest for improved workplace safety. Working at height is the biggest single cause of accidents, and falling from height the biggest cause of fatalities. Not only Singapore but the entire world suffers from this common source of accidents and injuries, to the point that there is a lot of information available on this topic. However, there is also considerable misunderstanding of both the causes of the accidents and proper ways to prevent or reduce the risks. The persisting problems with working at height in Singapore demand that professionals serious about controlling the risks of working at height should know more than the basics of the activity, beyond the Dos and Don'ts. The recent Code of Practice for Safely Working at Height should be thoroughly understood and applied to minimize the accidents in this regard. This course will provide the extra background required to understand the complexities of the problem. The presentation will be mainly keyed to the Code of Practice.

Venue
Devan Nair Institute for Employment and Employability (e2i), 80 Jurong East Street 21, Singapore 609607 (To be confirmed)

Date and Time
0900 to 1630
9am-4.30pm

Contact Details
Contact Person: Christine Lau
Email: christine.lau@iesnet.org.sg
Phone: 6461 1248
Fax: 6563 6030

Building and Construction Authority
26 Oct 2016 to 26 Oct 2016

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.
Institution of Engineers, Singapore  

**Design for Safety Appreciation Course**

The Design Phase is the earliest opportunity to incorporate Safety into a construction project. Just as productivity can be enhanced with early planning, so is the greatest impact for safety. Designing for safety starts at the conceptual and planning phases of a project with collective and conscious decisions by stakeholders about the design, methods of construction and later demolition, and also the materials used which enhance the safety of the building or structure. In 2008, WSH Council launched the Guidelines on Design for Safety in Buildings and Structures, followed by the DfS Coordinator Course in 2010. In addition to building DfS capabilities of stakeholders, WSH Council has developed the DfS Recognition Scheme which was launched in 2011. Consisting of the DfS Mark and DfS Award, the Scheme aims to recognise competent and outstanding projects that have addressed risk through design and hence ensure safe & timely completion of the project.