Building and Construction Authority 7 Jan 2019 to 28 Jan 2019

COMPUTATIONAL FLUID DYNAMICS (CFD) SIMULATION USING OPEN SOURCE SOFTWARE

Under the Green Mark criteria, Computational Fluid Dynamics (CFD) simulation is required and encompasses 4 segments namely, ventilation simulation, thermal comfort, indoor air quality simulation and wind driven rain. As CFD simulation software for commercial projects and outsourcing of simulation can be costly, it would be beneficial for companies and professionals to equip themselves with knowledge on CFDs open source software, OpenFOAM. In the course on Computational Fluid Dynamics (CFD) Simulation Using Open Source Software, participants will acquire the knowledge on CFD, OpenFOAM as an open source software as well as the experience needed to start their own CFD projects using OpenFOAM. There will be planned tutorials to guide participants through all aspect of the software.

Venue
BCA Academy

Date and Time
7 Jan 2019 to 28 Jan 2019
1900 to 2200
Duration: 7 nights (21 hours)
Frequency: 2 times per week

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

Institution of Engineers, Singapore 9 Jan 2019 to 9 Jan 2019

ABC Waters Professionals Elective Module (EU1) - Design, Construction and Maintenance of Sedimentation Basins 9th Run

To build up the expertise of industry professionals in ABC Waters design features, the ABC Waters Professional Programme was launched in Sep 2011. Comprising four core modules and four elective modules, the programme covers the concept, design, implementation and maintenance of ABC Waters design features. Participants who complete all four core modules plus any two elective modules, and meet the registration criteria of IES/SIA/SILA, would be eligible to be registered as an ABC Waters Professional.

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

Date and Time
9 Jan 2019 to 9 Jan 2019
0900 to 1830
9.00am - 6.30pm
9 Jan 2019 (Wed)

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

Building and Construction Authority 10 Jan 2019 to 11 Jan 2019

SAFETY DATA ANALYTICS TO IMPROVE WORKPLACE SAFETY & HEALTH PERFORMANCE

2-Day Practical Course on Safety Data Analytics to Improve Workplace Safety & Health Performance: Data Analytics is one of the emerging frontier technologies that our workforce needs training in to acquire skills to analyse available data. Workplace Safety and Health (WSH) works involve enormous data in the form of...
inspection reports, incident reports, safety behaviors indicators, procurement data, etc., that can be analysed with suitable data analytics tools to arrive at outcomes that can be used to improve work productivity and WSH performance at workplaces. Safety analytics can predict and prevent workplace safety incidents, thus saving lives, money and organisations reputation which goes beyond the conventional dashboards and safety reports of past incidents or accidents.

**Venue**  
BCA Academy, 200 Braddell Road, Singapore 579700  
**Date and Time**  
10 Jan 2019 to 11 Jan 2019  
0900 to1730  
Refreshment and lunch will be provided.  
**Contact Details**  
Contact Person: Customer Service Officer  
Email: bca_academy@bca.gov.sg  
Phone: 6248 9999  
Fax: 6258 0558

**Building and Construction Authority**  
**BUILT ENVIRONMENT AND PROPERTY PROSPECTS SEMINAR 2019**  
14 Jan 2019 to 14 Jan 2019

By 2030, the United Nations predicts that cities will house 60% of people globally*, and one in every three people will live in cities with at least half a million inhabitants. As Asian cities continues to experience growth at a rapid rate, indeed there is a significant opportunity to build infrastructure needed to accommodate this growth. Yet, we are seeing surmounting economic challenges as well as tensions between major trade relationships around the world. Closer to home, how will the built environment in Singapore perform in 2019? What are the opportunities, challenges and prospects for the Singapore built environment? How should companies prepare themselves during such unpredictable times? What should built environment firms look out for locally and beyond Singapore? Once again, we bring together prominent economist, policy makers and industry experts to address these burning questions at this annual flagship event.*World Urbanisation Prospects 2018, United Nations, Department of Economic and Social Affairs.

**Venue**  
Grand Copthorne Waterfront Hotel  
**Date and Time**  
14 Jan 2019 to 14 Jan 2019  
0930 to1700  
**Contact Details**  
Contact Person: Ms Brindha Natarajan  
Email: Brindha_Natarajan@bca.gov.sg  
Phone: 6248 9999  
Fax: 6258 0558

**Institution of Engineers, Singapore**  
**Design for Safety for Professionals (DfSP)**  
17 Jan 2019 to 18 Jan 2019

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  
**Date and Time**  
17 Jan 2019 to 18 Jan 2019  
0900 to1700  
9am to 5pm  
17 & 18 Jan 2019  
**Contact Details**  
Contact Person: Christine Lau  
Email: christine.lau@iesnet.org.sg  
Phone: 64639211  
Fax:

**Institution of Engineers, Singapore**  
**Prestressed Concrete In Buildings -15th Run**  
21 Jan 2019 to 21 Jan 2019

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 Jan 2019 to 21 Jan 2019  
0900 to1715  
9.00am - 5.15pm  
21 January 2019, Monday  
**Contact Details**  
Contact Person: Lee Woon (Ms)  
Email: hon lw@iesnet.org.sg  
Phone: 64611250 /64639211  
Fax:

**Building and Construction Authority**  
**CERTIFICATE IN FACADE INSPECTION**  
23 Jan 2019 to 28 Jan 2019

The Certificate in Faade Inspection course is designed to equip participants with essential knowledge and skills in faade inspection. On top of legislative framework and requirements on faade inspection, participants will gain an in-depth understanding of the fundamentals of various faade systems and materials, their particular maintenance needs and inspection methods.
Institution of Engineers, Singapore  
Design for Safety in Construction  
25 Jan 2019 to 25 Jan 2019

The regulatory requirement for Design-for-Safety (DfS) was enforced since August 2016. It requires stakeholders to work together to address foreseeable risks right from the conceptual design to the construction of the project. During the construction stage, the DfS review meetings will involve the design & supervision team from the Consultants and construction team from the Contractor. They will participate in reviewing safety and health risks relating to design and propose mitigation measures for implementation.

Institution of Engineers, Singapore  
INDOOR AIR QUALITY ON CONSTRUCTION SITES - 2nd Run  
30 Jan 2019 to 30 Jan 2019

The objective of this course is to present an overview of the indoor air quality health hazards that may be encountered by personnel on a construction site environment, addressing questions such as: What are some indoor air contaminants and where do they come from? How do these contaminants get into the body, and what are the health effects they can cause? Finally, what are some measures and good work practices that can be taken to address these indoor air quality concerns?

Building and Construction Authority  
SUPERVISION OF PILING WORKS  
18 Feb 2019 to 27 Feb 2019

Various challenges are present in pile foundation works due to the uncertainties and variability of the ground conditions. Once the piles are installed, they are expected to function throughout their lifetime. During the lifetime of the building, the foundation is rarely inspected for its continued structural integrity and stability. Supervision of piling works for building foundation is therefore essential and critical in ensuring the quality of construction works and safety of building structures. This short course imparts to participants the essential knowledge of good construction practices, supervision of piling works, regulatory requirements and testing of pile foundation works.