### Events

**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.

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<tr>
<th>Venue</th>
<th>Date and Time</th>
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<tbody>
<tr>
<td>BCA Academy</td>
<td>7 Jan 2019 to 28 Jan 2019</td>
<td>Contact Person: Customer Service Officer</td>
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<tr>
<td></td>
<td>1900 to 2200</td>
<td>Email: <a href="mailto:bca_academy@bca.gov.sg">bca_academy@bca.gov.sg</a></td>
</tr>
<tr>
<td></td>
<td>Duration: 7 nights (21 hours)</td>
<td>Phone: 6248 9999</td>
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<tr>
<td></td>
<td>Frequency: 2 times per week</td>
<td>Fax: 6258 0558</td>
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**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.

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<tr>
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<tr>
<td>BCA Academy, 200 Braddell</td>
<td>10 Jan 2019 to 11 Jan 2019</td>
<td>Contact Person: Customer Service Officer</td>
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<tr>
<td>Road, Singapore 579700</td>
<td>0900 to 1730</td>
<td>Email: <a href="mailto:bca_academy@bca.gov.sg">bca_academy@bca.gov.sg</a></td>
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<td>Refreshment and lunch will be</td>
<td>Phone: 6248 9999</td>
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<td>provided.</td>
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**Building and Construction Authority**  
**14 Jan 2019 to 14 Jun 2019**

**SPECIALIST DIPLOMA IN BUILDING INFORMATION MODELING**

Building Information Modelling (BIM) has become one of the most exciting developments in the building and...
construction industry in recent years. As an integrated design and documentation tool used to enhance communication and collaboration among all the project stakeholders, BIM has already begun changing the way architects, engineers, contractors and building owners work together. With strategic implementation, BIM will significantly improve the design and construction process through more integrated project coordination. BIM has also been identified as one of the key technologies to be adopted under BCAs $250-million Construction Productivity and Capability Fund (CPCF) to help the local construction industry improve productivity and enhance its capability. The Specialist Diploma in Building Information Modeling (BIM) aims to impart in-depth knowledge on BIM fundamentals and develop strategic skills for BIM project planning and implementation. It will focus on BIM applications for effective design analysis, productive design and construction coordination and holistic facility management. BIM standards and guidelines as well as BIM project case studies will also be included in this course. Upon graduation, participants can look forward to career opportunities as BIM Project Coordinators, BIM Modelers/Operators, BIM Consultants/ Specialists, and BIM Managers.

**Venue**

BCA Academy, 200 Braddell Road, Singapore 579700

**Date and Time**

14 Jan 2019 to 14 Jun 2019

1830 to 2130

Application Closing Date: 28 Dec 2018

Starting on 14th Jan 2019: 5 months - 2 Semesters (2 to 4 times a week)

**Contact Details**

Contact Person: Mr Nicholas Soh

Email: Nicholas_Soh@bca.gov.sg

Phone: 6248 9999

Fax: 6258 0558

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**Building and Construction Authority**

**Green Mark Managers (GMM)**

Participants of the Certification Course for Green Mark Manager will gain an in-depth understanding of BCAs environmental sustainability legislative framework, underlying performance standards and BCA Green Mark assessment systems, including the revised BCA Green Mark Criteria For New Non-Residential Buildings Green Mark For Non-Residential Buildings: 2015 (GM NRB: 2015). Focus will be placed on green building design guidelines and technologies, where the participants will learn the methods of identifying, evaluating and selecting cost effective solutions towards a more holistic green building performance. On top of that, the course will also touch on the integration of passive and active building design, as well as cooperation between disciplines in the design stage so as to optimise building design. It aims to practically empower industry professionals to take leadership in competently guiding projects to excel in the Green Mark criteria, and ultimately push the frontiers for greener buildings.

**Venue**

BCA Academy, 200 Braddell Road, Singapore 579700

**Date and Time**

17 Jan 2019 to 15 Feb 2019

0900 to 1730

9.00am to 5.30pm (Last day assessment from 9am to 2pm)

78th Run: 17, 18, 21, 22 Jan & 15 Feb 2019

**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**

**Design for Safety in Construction**

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.

**Venue**

IES Academy@Jurong East

**Date and Time**

25 Jan 2019 to 25 Jan 2019

0900 to 1215

9am - 12.15pm

25 Jan 2019

**Contact Details**

Contact Person: Christine Lau

Email: christine.lau@iesnet.org.sg

Phone: 64611248

Fax:

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**Building and Construction Authority**

**bizSAFE Level-2 Develop A Risk Management Implementation Plan [2 Days]**

Workplace Safety and Health (Risk Management) Regulations require stakeholders such as employers, self-employed persons and principals to have the responsibility of identifying safety and health hazards at the workplace and taking appropriate actions to eliminate the hazards or mitigate the risks associated with the hazards. Risk assessment and management is the key to reduce the risks at source. Participant who attends this course will have an in-depth understanding and knowledge on the concepts and methodologies of risk assessment and management. This course will also provide hands-on experience in the risk assessment for
construction activities and development of risk management implementation plan.

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<tr>
<td>BCA Academy, 200 Braddell Road, Singapore 579700</td>
<td>29 Jan 2019 to 30 Jan 2019 0900 to 1730 Duration: 2 Days (14 hours) 130th Run: 29 &amp; 30 Jan 2019</td>
<td>Contact Person: Customer Service Officer Email: <a href="mailto:bca_academy@bca.gov.sg">bca_academy@bca.gov.sg</a> Phone: 62489999 Fax: 62580558</td>
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**Building and Construction Authority** 19 Feb 2019 to 29 Nov 2019

**SPECIALIST DIPLOMA IN VIRTUAL DESIGN & CONSTRUCTION (VDC)**

Virtual Design and Construction (VDC) is an integrated approach that combines Building Information Modelling (BIM) and advanced management methods to improve productivity. The programme will provide insights into VDC methodologies such as Integrated Concurrent Engineering, and Process and Production Management, where participants will be able to apply these VDC methodologies to streamline project workflow and improve business performance. VDC will benefit both consultants and contractors to achieve productivity gains in upstream and downstream of both design and construction phases.

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<tr>
<td>BCA Academy, 200 Braddell Road, Singapore 579700</td>
<td>19 Feb 2019 to 29 Nov 2019 1830 to 2130 Application Closing: 1 Feb 2019 Starting on 7 Jan 2019; 5 months lessons + 4 months final project</td>
<td>Contact Person: Ms Li Hui Wen Email: <a href="mailto:Li_Huiwen@bca.gov.sg">Li_Huiwen@bca.gov.sg</a> Phone: 6248 9999 Fax: 6258 0558</td>
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**Building and Construction Authority** 19 Feb 2019 to 29 Nov 2019

**SPECIALIST DIPLOMA IN COMPUTATIONAL BIM (BUILDING)(SDCBB)**

The Specialist Diploma Computational BIM Building (SDCBB) programme aims to equip Built Environment professionals and contractors with knowledge in the different computational BIM tools for automation, optimization and validation. Learners will undergo an intensive course where they will acquire knowledge on basic programming syntax and proceed to learn how to script across various types of computational BIM software for customisation of the BIM programmes. With data generated from BIM models, learners would also be able to manage and manipulate such data for construction use, which enables further application to their respective disciplines. The programme devotes 60% of the total contact hours to the use of computer labs for hands-on learning. Finally, students will embark on a 4-month graded project based on application of the computational skills they have learnt into their current projects. *Please be informed that the indicated start and end dates of this course are currently tentative.*

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<td>BCA Academy, 200 Braddell Road, Singapore 579700</td>
<td>19 Feb 2019 to 29 Nov 2019 1830 to 2130 5 mths lessons + 4 mths final project [Frequency: 2-3 evenings per week, whereby some courses may be held on Saturdays] 1st Intake: Starting in February 2019* [Application closing date: 1 Feb 2019]</td>
<td>Contact Person: Mr Nicholas Soh Email: <a href="mailto:Nicholas_Soh@bca.gov.sg">Nicholas_Soh@bca.gov.sg</a> Phone: 6248 9999 Fax: 6258 0558</td>
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**Building and Construction Authority** 25 Feb 2019 to 21 Sep 2021

**BACHELOR OF CONSTRUCTION MANAGEMENT (BUILDING)(HONOURS)**

WHY CONSTRUCTION MANAGEMENT? Every construction project combines a variety of complex challenges. Managing a project requires a combination of technical understanding of construction processes and resource management, as well as managing their legal and financial aspects. WHY STUDY WITH US? The Bachelor of Construction Management (Building)(Honours) will equip you with the skills and knowledge to manage complexities in construction projects both in Singapore and across the world. The programme incorporates substantial Building Information Modelling (BIM) teaching and projects which offer a niche specialty beyond the construction management discipline. This would give the graduates a solid foundation to pursue wide career choice as BIM Managers, Project Managers, Quantity Surveyors and Facility Managers. The degree programme is conceptualized to be a problem-based learning pedagogy to train students to solve real-world challenges, develop holistic understanding of construction project environment, and portable life-long learning skills. To offer an accelerated pathway, an advanced standing articulation would be eligible for students with relevant diploma qualifications.
### Building and Construction Authority

**CERTIFICATION COURSE FOR GREEN MARK FACILITIES MANAGER (GMFM)**

The aim of the Certification Course for Green Mark Facilities Manager is to equip participants with the knowledge and skills to improve and implement sustainable measures and technologies in an existing building. Participants will learn how a building's energy consumption and environmental impacts can be minimised during the building life time, and to conduct Green Mark Assessment for existing buildings.

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| BCA Academy, 200 Braddell Road, Singapore 579700 | 26 Feb 2019 to 19 Mar 2019 0900 to1800  
Duration: 4 days (Day class) + 0.5 day Assessment (last day)  
Time: 9.00am to 6.00pm (Day class) |  
8.30am to 1.00pm (Assessment)  
32nd Run: 26, 27 Feb, 5, 6 & 19 Mar 2019  
Contact Person: Customer Service Officer  
Email: bca_academy@bca.gov.sg  
Phone: 6248 9999  
Fax: 6258 0558 |

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