BUILDING AND CONSTRUCTION AUTHORITY
4 MAY 2017 TO 4 MAY 2017

PREPARING AND DEFENDING LOSS AND EXPENSE CLAIMS

Against a backdrop of economic uncertainties, many on-going projects run the risk of going into disputes, claims, delay and disruption. Loss and Expense claim is one of the cost claims that are likely to be encountered by contracting parties of a construction project.

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

**Date and Time**
4 May 2017 to 4 May 2017
0900 to 1700

**Fee (incl of GST):** S$400.00

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

BUILDING AND CONSTRUCTION AUTHORITY
4 MAY 2017 TO 4 MAY 2017

TENDERING FOR MRT AND MAJOR INFRASTRUCTURE PROJECTS

MRT tender preparation and submission need to be carefully and effectively managed to avoid exposing organisations to severe financial penalties and turning a potentially profitable project into a loss-maker. In order to be profitable, a sound tender is vital and risk factors must be eliminated where possible. Thus, a specially tailored 1 day course is launched to educate and equip construction industry stakeholders with a good real insight into contractors’ experience in tendering for MRT projects and other infrastructure projects.

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

**Date and Time**
4 May 2017 to 4 May 2017
0900 to 1700

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

INSTITUTION OF ENGINEERS, SINGAPORE
9 MAY 2017 TO 9 MAY 2017

GOOD REINFORCEMENT PRACTICES 1 & 2 - 10th Run

The course covers the basic principles to handling and treatment of reinforcement and starter bars on site to prevent future corrosion problems. It also shares the salient issues when considering alternative protection of reinforcement under extremely harsh environment. It is useful for the Resident Engineer (RE) and Resident Technical Officer (RTO) to have knowledge of proper handling and treatment of reinforcement on site and understand the possible issues when considering other ways to protect reinforcement against future corrosion.

**Venue**
IES Academy@Jurong East

**Date and Time**
9 May 2017 to 9 May 2017
1500 to 2200

**Contact Details**
Contact Person: Florence Lee
Email: florence.lee@iesnet.org.sg
Building and Construction Authority 11 May 2017 to 12 May 2017

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 BCA’s 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 Date and Time Contact Details
BCA Academy, 200 Braddell Road, Singapore 579700 11 May 2017 to 12 May 2017 0900 to 1730 Contact Person: Customer Service Officer
Email: bca_academy@bca.gov.sg
Phone: 6248 9999
Fax: 6258 0558

Institution of Engineers, Singapore 16 May 2017 to 16 May 2017

Quality Institute for Concrete Construction 15th Run

Insitu concrete construction are commonly found in Singapore, in the building of apartments, office and commercial buildings, port facilities, MRT stations and tunnels, bridges and flyovers, flatted factories and other structures. Insituconcrete must be well supervised in order to obtain the best out of this material and to ensure durable structures with very minimal maintenance. The task of supervising the construction of concrete structures is very much in the hands of Resident Engineers (RE) and Resident Technical Officers (RTO). The overall objective of this series of course modules is to refresh REs and RTOs on good insitu concrete practice specifically in the areas of concrete production, transporting, placing, formwork, curing, finishing, sampling and testing.

Venue Date and Time Contact Details
IES Academy at Jurong East 16 May 2017 to 16 May 2017 1500 to 2200
3pm - 10pm 16 May 2017 Contact Person: Florence Lee
Email: florence.lee@iesnet.org.sg
Phone: 64604248
Fax:

Building and Construction Authority 19 May 2017 to 19 May 2017

DESIGN AND MAINTENANCE OF KITCHEN EXHAUST SYSTEMS FOR HAWKER CENTRES

This 1-day course aims to provide an in-depth understanding on the design and maintenance of the kitchen exhaust system for hawker centres and food establishments. The course will provide an overview of NEA kitchen exhaust design guide as well as relevant local regulatory and mandatory requirements. In addition, it will also cover fundamentals of mechanical ventilation system, good design practices in kitchen exhaust system and case studies.

Venue Date and Time Contact Details
BCA Academy 19 May 2017 to 19 May 2017 0900 to 1700 Contact Person: Customer Service Officer
Email: bca_academy@bca.gov.sg
Phone: 6248 9999
Fax: 6258 0558

Institution of Engineers, Singapore 23 May 2017 to 23 May 2017

Increasing Productivity: New Developments in Construction Methods & Materials - 2nd Run

Introduction: Development projects are increasingly demanding as the clients become more sophisticated and requires their project to be built with better productivity and sustainability. At the same time, over the years there has been a gradual accumulation of practical experience around the world on specific methods of construction like prefabricated-prefinished volumetric construction (PPVC) and materials like self-compacting concrete (SCC) and cross laminated timber (CLT). These materials and method of construction may be considered as a means to achieve sustainability and improve productivity under the right conditions. Stakeholders (Designers, Resident Engineers, Resident Technical Officers, Site Supervisors, etc) would need to have some understanding of these materials and method can be used as they might be handling projects involving them.
Institution of Engineers, Singapore

**One Day course on Infrastructure Planning for Township/Large-scale Housing Developments**

Importance of infrastructural provisions in support of township/ large-scale housing developments

In any large-scale public or private housing developments, physical infrastructure such as earthworks, roads, drains, sewers and utilities, are critically needed not only to enable the physical development of but also support modern community living in the new housing estates. In fact, no development can function properly and effectively without the timely provision of adequate infrastructural facilities and public utilities. 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.

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

**Date and Time**
26 May 2017 to 26 May 2017
9am to 5pm
26 May 2017

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

Institution of Engineers, Singapore

**Guide to Structural Steel, Stainless Steel & Aluminum for Construction Projects - 6th Run**

Introduction - Structural steel is still in demand for their high quality and productivity while stainless steel and aluminum has appealing quality leading to an increasing use in the Construction Industry. Construction stakeholders (Owners, Architects, Engineers, Resident Technical Officers) are handling more demanding and complex projects in current development projects involving working with stainless steel & aluminum elements and protection of structural steel. This programme aims to provide information on the specification, manufacturing and maintenance of stainless steel & aluminum to participants to allow them to better execute their projects. It also shares concepts to corrosion protection for steel structures.

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

**Date and Time**
13 Jun 2017 to 13 Jun 2017
3.00pm to 10.00pm
13 June 2017

**Contact Details**
Contact Person: Florence Lee
Email: florence.lee@iesnet.org.sg
Phone: 6460 4248
Fax:

Building and Construction Authority

**BIM FOR STRUCTURAL DESIGN AND DETAILING**

The built environment sector has seen significant transformation from 2D drafting to 3D modelling in recent years. While the Civil and Structural (C&S) BIM e-submission is gaining traction, structural calculations are still generated in PDF to justify the sizes of load bearing elements. There is disconnect between analytical models used in design and physical models used to document design intent. There is indeed a need to push for the integration of physical and analytical models to maximize the benefits of BIM for structural engineers.

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

**Date and Time**
27 Jun 2017 to 28 Jun 2017
0900 to1800
27 June 2017

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

Institution of Engineers, Singapore

**Safety & Risk Management Systems for Construction Site Safety - 5th Run**

Safety in construction sites is of paramount importance not only to protect oneself but also to ensure safety for fellow personnel on site. This programme is for stakeholders in construction projects (Resident Engineers, Resident Technical Officer, Site Supervisors, etc) and it explains the concepts related to risk management & control which can be applied to activities on construction site. The programme also discusses safety management systems and safety audits and how to report and investigate accidents related to site activities.

**Venue**
IES Academy@Jurong East

**Date and Time**
23 May 2017 to 23 May 2017
1500 to2200
3pm - 10pm
23 May 2017

**Contact Details**
Contact Person: Florence Lee
Email: florence.lee@iesnet.org.sg
Phone: 6460 4248
Fax:
Institution of Engineers, Singapore

**Safety & Risk Management Systems for Construction Site Safety - 13th Run**

Introduction: Safety in construction site is of paramount importance not only to protect oneself but also to ensure safety for fellow personnel on site. This programme is for stakeholders in construction projects (Resident Engineers, Resident Technical Officers, Site Supervisors, etc) and it explains the concept related to risk management & control which can be applied to activities on construction site. The programme also discusses safety management systems and safety audits and how to report and investigate accidents related to site activities.

**Venue**
IES Academy at Jurong East

**Date and Time**
27 Jun 2017 to 27 Jun 2017
1800 to 2200
6.00pm to 10.00pm
27 June 2017

**Contact Details**
Contact Person: Florence Lee
Email: florence.lee@iesnet.org.sg
Phone: 6463 9211
Fax: 6463 9468

Building and Construction Authority

**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 performances. VDC will benefit both consultants and contractors to achieve productivity gains in upstream and downstream of both design and construction phases.

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

**Date and Time**
10 Jul 2017 to 9 Apr 2018
1830 to 2130
Application Period: 28 Feb to 28 Apr 2017
Starting on 10 Jul 2017; 5 months lessons + 4 months final project

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

Building and Construction Authority

**CONSTRUCTION CONTRACT PROCUREMENT & NEGOTIATION**

Procurement is a process of acquiring a construction project. Selecting a suitable procurement strategy in consideration of the clients objectives is a key to the success of any construction project. Building upon the procurement strategy adopted, good negotiation skill is required to achieve a fair construction contract. This 2-day course aims to provide an understanding of the processes and methodologies in managing effective contract procurement and negotiation.

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

**Date and Time**
17 Jul 2017 to 18 Jul 2017
0900 to 1730

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

Building and Construction Authority

**SPECIALIST DIPLOMA IN LEAN CONSTRUCTION**

Drawing from the lean principles originally applied in manufacturing sector, lean construction adopts production management approach to project delivery. It strives to optimise project delivery through continuous improvements to minimise waste and maximise values to all stakeholders. This programme aims to equip industry practitioners with the knowledge of lean principles, lean construction approaches and methodologies for higher productivity.

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

**Date and Time**
24 Jul 2017 to 23 Apr 2018
0900 to 1730

**Contact Details**
Contact Person: Customer Service Officer
Email: bca_academy@bca.gov.sg
Phone: 6248 9999
Fax: 6258 0558
**SPECIALIST DIPLOMA IN DESIGN FOR MANUFACTURING & ASSEMBLY (DFMA)**

Design for Manufacturing and Assembly (DFMA) is helping revolutionise construction, making it faster, safer and more reliable. It is a process whereby buildings are designed for ease of off-site manufacturing and efficiency of on-site assembly. To enjoy the benefits of DFMA for construction industry, practitioners will need to re-think its project design approaches and construction processes. This programme aims to equip industry professionals with the knowledge and skills to apply DFMA principles in construction projects, so as to achieve higher construction productivity.

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