Institution of Engineers, Singapore 26 Sep 2017 to 26 Oct 2017

Seminar on Use of High Strength Grade 600 Reinforcing Bar Systems to Improve Construction Productivity on 26 Oct 2017 3 PDU

The learning points, observations and recommendations from the study trips will be useful as we embark on the next phase of work to encourage our industry to use more GR600 rebars and rebar systems to improve construction productivity. This seminar is organised specifically to share these learning lessons, to discuss the issues confronting our industry and key stakeholders in trying to use GR600 rebars and how we can overcome these issues and move forward together in the same direction.

Venue  
Auditorium, SIT@Dover, Singapore Institute of Technology 10 Dover Drive, Singapore 138683

Date and Time  
26 Sep 2017 to 26 Oct 2017 1420 to0000
12.30pm to 5.30pm
26 October 2017

Contact Details  
Contact Person: Tan Bai Fong
Email: tan.baifong@iesnet.org.sg
Phone: 64611255
Fax: 64691108

Building and Construction Authority 17 Oct 2017 to 17 Oct 2017

PREFABRICATING OUR FUTURE : CASE STUDY ON A LOCAL STEEL PPVC DEVELOPMENT

Prefabricated Prefinished Volumetric Construction (PPVC) is a technology that fundamentally changes the way we build. In this workshop, the project team of the Wisteria development, with representatives from the Architect, Main Contractor and PPVC specialist will share their project experience and learning points throughout the design, manufacturing and construction stages. In addition, participants could would be able to visit the project site to view the hoisting process and various PPVC modules (*subject to weather conditions).

Venue  
BCA Academy, 200 Braddell Road, Singapore 579700

Date and Time  
17 Oct 2017 to 17 Oct 2017 0900 to1300
0900 to 1300

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

Building and Construction Authority 26 Oct 2017 to 1 Nov 2017

SUPERVISION OF PILING WORKS

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.
INTERNAL AUDIT (QEHS) COURSE BASED ON QUALITY ISO 9001, ENVIRONMENTAL 14001 & HEALTH & SAFETY OHSAS 18001

The Internal Audit (QEHS) course (based on requirements on Quality Management System, Environmental Management System and Occupational Health and Safety Management System) aims to equip Internal Auditors with the knowledge and skill required to assess, monitor and measure the performance of an organisation's integrated QEHS Management system. As the ISO 9001 and ISO 14001 have recently undergone a major review, the course includes the latest updates of the new editions and highlights the necessary revisions to ensure smooth transition from the current version.

REQUIREMENTS FOR ENVIRONMENTAL SUSTAINABILITY IN BUILDINGS AND THE GREEN MARK SCHEME

This course aims to provide crucial information and knowledge on the legislative requirements on Environmental Sustainability for Buildings, provide an understanding on the interpretation of the Green Mark Criteria and Scores for new building developments Residential & Non-residential Buildings and provide a better understanding on the submission procedures and walk through of the Green Mark (GM) e-filing system.

ESSENTIAL KNOWLEDGE IN BUILDING LEGISLATION & PROCEDURES FOR BUILDING PLAN SUBMISSION

This course aims to give the Qualified Persons and technical support staff a better understanding of the building regulations. It allows participants to know the submissions process at different building plan stages and how it can be done more effectively and efficiently.

CIVIL DEFENCE SHELTER SEMINAR 2017 - DESIGN, CONSTRUCTION AND COMMISSIONING OF HOUSEHOLD AND STOREY SHELTERS

Under the ambit of Total Defence, the Civil Defence (CD) Shelter Programme is part of governments plan to build up Civil Defence preparedness in Singapore. To meet the changing needs and developments in the built environment sector, the Building and Construction Authority (BCA) and Singapore Civil Defence Force (SCDF) have been working closely to continuously review the technical requirements of the CD shelters. This seminar will update industry practitioners on revisions to the household shelter technical requirements. To support the continuous drive for better construction productivity, participants will also be updated on the new initiative on precast staircase storey shelters, especially for residential projects using Prefabricated Prefinished Volumetric Construction (PPVC) concept.
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.

SPECIALIST DIPLOMA IN CONSTRUCTION PRODUCTIVITY

This programme covers the latest trends and emerging game-changing technologies such as Building Information Modelling (BIM), Virtual Design & Construction (VDC), Pre-fabricated Bathroom Unit (PBU), Pre-fabricated and Prefinished Volumetric Construction (PPVC), and Cross Laminated Timber (CLT). It aims to hone the skills and enhance the knowledge of built environment professionals using more focused intensive learning methods so as to accelerate the development of a higher professional competency in construction productivity. Effective from 1 Jan 2016, all A1 to B1 contractors are required to have at least one full-time employed Registrable Professional/Professional/Technical personnel (RP/P/T) to have either completed or registered to attend this course in their next BCA Contractors Registration System (CRS) renewal; the effective date for L6 contractors for CR and ME workheads (except CR14, ME07 and ME13) will be their next CRS renewal after 1 Jan 2017.

SPECIALIST DIPLOMA IN UNDERGROUND CONSTRUCTION

Land-scarce Singapore has historically looked to build both upward with taller buildings and outward by reclaiming land from sea. However, another area that Singapore could do more with, is its underground space. The underground space holds possibilities for creating additional subterranean transport hubs, pedestrian links, cycling lanes, utility plants, storage and research facilities, industrial uses, shopping areas and other public spaces. Developing competency in the area of underground construction is critical to realizing such subterranean construction projects. The Specialist Diploma in Underground Construction aims to equip contractors and consultants at the supervisory level with the knowledge in geotechnical design concepts, considerations and construction techniques so as to support increasingly complex and challenging underground construction projects.
**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 S$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.

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**Venue**

BCA Academy, 200 Braddell Road, Singapore 579700

**Date and Time**

15 Jan 2018 to 14 Jun 2018
1830 to 2130
Application Closing Date: 27 Oct 2017
Starting on 15th Jan 2018; 5 months - 2 Semesters (2 to 4 times a week)

**Contact Details**

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

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**SPECIALIST DIPLOMA IN FACILITY & ENERGY MANAGEMENT**

Environmental sustainability is increasingly gaining ground in the building and construction industry, buoyed by global concerns on climate change and limited natural resources. With the rising trend towards green technologies and renewable energy in the built environment, there is now a critical need for professionals that are proficient in energy management to operate buildings for optimal building performance. The Specialist Diploma in Facility & Energy Management equips you with essential knowledge to plan and manage building operations and maintenance efficiently. The programme also incorporates Energy Management and BIM for Facilities Management modules to give you the added competitive edge. Upon graduation, you can work effectively as facility management executives in management corporations, building maintenance and building refurbishment firms.

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**Venue**

BCA Academy, 200 Braddell Road, Singapore 579700

**Date and Time**

22 Jan 2018 to 1 Jan 2019
1830 to 2130
Application Closing Date: 27 Oct 2017
Starting on 22 Jan 2018; Approximately 1 year including term break

**Contact Details**

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

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**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.

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**Venue**

BCA Academy, 200 Braddell Road, Singapore 579700

**Date and Time**

22 Jan 2018 to 22 Oct 2018
1830 to 2130
Application Closing: 27 Oct 2017
Starting on 22 Jan 2018; 5 months lesson + 4 months Final Project

**Contact Details**

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

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**SPECIALIST DIPLOMA IN DESIGN FOR MANUFACTURING & ASSEMBLY (DFMA)**

Design for Manufacturing and Assembly (DIMA) 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.

**SPECIALIST DIPLOMA IN ARCHITECTURAL TECHNOLOGY**

Architectural designs in Singapore and many parts of the world have evolved rapidly with computerisation and good technical support is critical to ensure delivery of such quality developments. Cognizant of the government’s call for productivity and sustainability, building projects have to be completed quickly and to high standards. Hence there is a need for skilled and knowledgeable technologists to assist the Architectural Consultants and Contractors to achieve this goal. The Specialist Diploma in Architectural Technology will help prepare you to meet the challenges of the workplace, covering important topics such as project drawing documentation, local building development guidelines, building regulations, integrated online submission of plans for approval, detailing and good practices. You will also get to explore green building designs and try your hand at providing creative universal design solutions for the built environment.

**SPECIALIST DIPLOMA IN BUILDING COST MANAGEMENT**

The design and construction of building projects is a highly complex and demanding process, especially with the increased sophistication of the various disciplines involved, such as architecture, surveying, construction and engineering. Delivering a project of such complexity within the right budget, quality and time-scale is critical in meeting clients expectations. Building cost management provides owners, developers, architects and contractors the highest degree of cost predictability over the life cycle of a building with the use of cost modelling and management techniques. The Specialist Diploma in Building Cost Management prepares you to manage construction cost planning and control right from project inception to the disposal phase of a building. It provides you an opportunity to gain industry-specific skills and experience in cost estimates and analysis, budget forecasts, facilities planning, conceptual studies and bid comparisons for the design and construction of property. The curriculum also covers capital and operating cost assessment skills and project control decisions. Upon graduation, you can find career opportunities as quantity surveyors or cost managers in Singapore’s booming construction industry.

**SPECIALIST DIPLOMA IN CONSTRUCTION MANAGEMENT**

In land scarce Singapore, the building and construction industry plays a critical role in our city’s advancement and urban regeneration. With a high volume of building and infrastructure, the construction industry is offering great employment prospects and earning potential for construction professionals, such as higher level
supervisors, project coordinators, construction managers and project managers. The Specialist Diploma in Construction Management will equip you with skills that are essential in managing construction projects successfully. The comprehensive curriculum ranging from technical subjects, quality, safety, contract & cost management to legal studies and information technology will prepare you for an outstanding career in the construction industry.

**Specialist Diploma in Construction Management**

**Venue**

BCA Academy, 200 Braddell Road, Singapore 579700

**Date and Time**

1 Feb 2018 to 31 Jan 2019
1830 to 2130
Application Closing Date: 27 Oct 2017
Starting on 1st Feb 2018;
Approximately 1 year including term break

**Contact Details**

Contact Person: Customer Service Officer
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Phone: 6248 9999
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**Specialist Diploma in M&E Coordination**

The growing complexity of Mechanical and Electrical (M&E) services in commercial, residential, industrial and infrastructure projects have made the role of an M&E coordinator increasingly important. Proper planning and coordination of M&E services are central to the success of building projects, playing key roles in building aesthetics, operational efficiency and optimal building maintenance. The Specialist Diploma in M&E Coordination is designed to meet the increasing sophistication in building design as demanded by the market. It aims to equip individuals with the technical knowledge of industry best practices as well as managerial skills to undertake both conventional and specialised building projects. The Specialist Diploma in M&E Coordination is recognised by BCA as a technical qualification that is acceptable for M&E work head registration under BCA’s Contractors Registry. Upon graduation, participants can look forward to become M&E coordinators, property executives and facilities executives. The Specialist Diploma also serves as a stepping-stone to technically advanced positions such as project managers or M&E managers.

**Venue**

BCA Academy, 200 Braddell Road, Singapore 579700

**Date and Time**

5 Feb 2018 to 4 Feb 2019
1830 to 2130
Application Closing Date: 27 Oct 2017
Starting on 5 Feb 2018;
Approximately 1 year including term break

**Contact Details**

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

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**Specialist Diploma in Interior & Landscape Design**

Interior and landscape design is about exploring space within a building and outside the building. And with design disciplines merging across the board, aspiring interior and landscape architects will have to take inspiration from architecture, landscape, product, graphic art and visual culture to perceive space, while considering wider issues such as the environment, functions and form. The Specialist Diploma in Interior & Landscape Design is structured to equip you with the knowledge of principles and theories in interior and landscape design, and how they are applied in real life. From idea conception to planning and creating interior and exterior spaces, you will explore new technologies to improve your design solutions and gain critical knowledge of building and material science to understand the behaviour, social and physical requirements of design in the built environment. Upon graduation, you will qualify to work as technical specialists in the interior and landscape design industry.

**Venue**

BCA Academy, 200 Braddell Road, Singapore 579700

**Date and Time**

19 Feb 2018 to 18 Feb 2019
1830 to 2130
Application Closing Date: 27 Oct 2017
Starting on 19 Feb 2018;
Approximately 1 year including term break

**Contact Details**

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

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