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
8 Jan 2018 to 5 Oct 2018
1830 to 2130
Application Closing: 17 Nov 2017
Starting on 8 Jan 2018; 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
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.

Venue
BCA Academy, 200 Braddell Road, Singapore 579700

Date and Time
9 Jan 2018 to 8 Jan 2019
1830 to2130
Application closing: 17 Nov 2017
Starting on 9 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

Building and Construction Authority
15 Jan 2018 to 14 Jun 2018

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.

Venue
BCA Academy, 200 Braddell Road, Singapore 579700

Date and Time
15 Jan 2018 to 14 Jun 2018
1830 to2130
Application Closing Date: 17 Nov 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

Building and Construction Authority
22 Jan 2018 to 1 Jan 2019

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.

Venue
BCA Academy, 200 Braddell Road, Singapore 579700

Date and Time
22 Jan 2018 to 1 Jan 2019
1830 to2130
Application Closing Date: 17 Nov 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

Building and Construction Authority
22 Jan 2018 to 22 Oct 2018

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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<td>22 Jan 2018 to 22 Oct 2018 1830 to2130 Application Closing: 17 Nov 2017 Starting on 22 Jan 2018; 5 months lesson + 4 months Final Project</td>
<td>Contact Person: Customer Service Officer Email: <a href="mailto:bca_academy@bca.gov.sg">bca_academy@bca.gov.sg</a> Phone: 6248 9999 Fax: 6258 0558</td>
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**Building and Construction Authority**

**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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<td>Contact Person: Customer Service Officer Email: <a href="mailto:bca_academy@bca.gov.sg">bca_academy@bca.gov.sg</a> Phone: 6248 9999 Fax: 6258 0558</td>
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**Building and Construction Authority**

**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 governments 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, to 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.

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<td>BCA Academy, 200 Braddell Road, Singapore 579700</td>
<td>1 Feb 2018 to 31 Jan 2019 1830 to2130 Application Closing Date: 17 Nov 2017 Starting on 1 Feb 2018; Approximately 1 year including term break</td>
<td>Contact Person: Customer Service Officer Email: <a href="mailto:bca_academy@bca.gov.sg">bca_academy@bca.gov.sg</a> Phone: 6248 9999 Fax: 6258 0558</td>
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**Building and Construction Authority**

**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.

Venue | Date and Time | Contact Details
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BCA Academy, 200 Braddell Road, Singapore 579700 | 1 Feb 2018 to 31 Jan 2019 1830 to 2130 | Contact Person: Customer Service Officer Email: bca_academy@bca.gov.sg Phone: 6248 9999 Fax: 6258 0558

Building and Construction Authority | 1 Feb 2018 to 31 Jan 2019

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.

Venue | Date and Time | Contact Details
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BCA Academy, 200 Braddell Road, Singapore 579700 | 1 Feb 2018 to 31 Jan 2019 1830 to 2130 | Contact Person: Customer Service Officer Email: bca_academy@bca.gov.sg Phone: 6248 9999 Fax: 6258 0558

Building and Construction Authority | 5 Feb 2018 to 29 Jan 2021

BACHELOR OF CONSTRUCTION MANAGEMENT (BUILDING) (HONOURS)

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 conceptualised 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.

Venue | Date and Time | Contact Details
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BCA Academy, 200 Braddell Road, Singapore 579700 | 5 Feb 2018 to 29 Jan 2021 0800 to 2000 | Contact Person: Customer Service Officer Email: bca_academy@bca.gov.sg Phone: 6248 9999 Fax: 6258 0558

Building and Construction Authority | 5 Feb 2018 to 28 Feb 2022

BACHELOR OF ENGINEERING (HONOURS) (CIVIL)

Civil Engineers are highly demanded in Singapore. In fact, Civil engineering is vital to Singapore’s drive to creating a better built environment and liveable city. The development of mega infrastructure projects as well as re-shaping Singapore city landscape will require highly qualified engineers trained in civil discipline. As we build higher and dig deeper underground, there is high prospects for Civil Engineers to design, plan, build, manage and oversee the development of infrastructure/building projects. This degree programme is designed to allow both GCE ‘A’ level and diploma graduates a pathway to pursue a rewarding career in the built environment.

Venue | Date and Time | Contact Details
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BCA Academy, 200 Braddell Road, Singapore 579700 | 5 Feb 2018 to 28 Feb 2022 0900 to 1800 | Contact Person: Customer Service Officer Email: bca_academy@bca.gov.sg
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 BCAs 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: 17 Nov 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

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 behavioural, 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: 17 Nov 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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