



## STACKABLE MODULAR CERTIFICATES

You will have the flexibility to take the modular certificates in any order and at your own pace\*. The certificates can be stacked up towards the Specialist Diploma.

*\*maximum of 3 years to accumulate the certificates for an academic qualification*

Specialist Diploma in

# VIRTUAL DESIGN & CONSTRUCTION (SDVDC)



Eligible for  
SkillsFuture  
Credit

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

**Duration:** 3 months per modular certificate (54 hrs)  
(Assessment: 3 hrs)

**Frequency:** 2 to 3 evenings per week (some lessons may be held on Saturdays)

**Venue:** BCA Braddell Campus and Online Learning

**Fee\*** (inclusive of GST): S\$3,000 (per modular certificate)

*\*Refer to next page for SSG funding details*

**Assessment:** Continuous and Project Based

*Registration closes 2 weeks prior to course commencement, or when the class is fully subscribed, whichever is earlier. Late registration may be consider on case by case basis.*

## Certificate in Virtual Design & Construction Practices

(Classroom + Synchronous E-Learning)

**MODULAR CERTIFICATE A:**  
Jan to Mar / Jul to Sep

By the end of this certificate, learners will be able to apply the various VDC principles into their line of work, and to effectively measure the productivity outcome of their applications.

### COURSES OFFERED:

- BIM for Management (Design)
- Integrated Concurrent Engineering
- Process and Production Management
- Measurement & Verifications (Metrics)
- Pull Planning & Scheduling / Case Studies
- Project

## Certificate in Virtual Design & Construction Process Management

(Classroom + Synchronous E-Learning)

**MODULAR CERTIFICATE B:**  
Apr to Jun / Oct to Dec

By the end of this certificate, learners will be able to apply various VDC methodologies and tools in streamlining work processes during construction phase.

### COURSES OFFERED:

- BIM for Management (Deployment)
- VDC Workflow
- VDC Workshop
- Application of VDC to Workplace
- BIM to Field
- Project

## ENTRY REQUIREMENT

Applicants who do not wish to complete the Specialist Diploma programme are not subject to the entry requirements.

The applicant must meet the following requirements:

- degree / diploma / equivalent qualification; and
- at least 3 years of working experience in the built environment or related fields, with background as project manager, construction manager, consultant or construction professional preferred.

**Note:** Applicants with relevant working experience but do not fulfil the above requirements will be reviewed on a case-by-case basis.

Applicants must have their own computers/laptops with minimum specifications to run BIM software (recommended 16GB RAM minimum) and access student portal.

*Applicants with degree or diploma qualification where English is not the medium of instruction is required to take an English Screening Test (EST) at a fee of S\$23.00 (incl. GST) conducted by the BCA Academy. Alternatively, applicant may choose to achieve the ESS Workplace Literacy Test Level 6 issued by SkillsFuture Singapore (SSG).*

## WHO SHOULD ATTEND

This Specialist Diploma Programme is designed for all professionals in the built environment.

## AWARD OF CERTIFICATE

A participant must attain at least 75% of physical attendance and complete all assignments to acceptable standards to be eligible to be awarded each modular certificate. Participant who did not complete the assignments to acceptable standards but attained at least 75% of physical attendance will be issued with a certificate of attendance. The successful achievement of all modular certificates will lead to the awarding of the **Specialist Diploma in Virtual Design & Construction (SDVDC)**.

## SSG FUNDING<sup>^</sup> DETAILS

Modular Certificate Title	Full Course Fee	Singaporeans, Singapore PRs and non SME company sponsored participants. Fee payable after 50% funding support.	Singaporeans 40 years old and above OR SME company sponsored Singaporeans or Singapore PRs. Fee payable after 70% funding support.
Certificate in Virtual Design & Construction Practices Classroom + Synchronous E-Learning (TGS-2022012763)	S\$3,000	S\$1,598.13	S\$1,037.38
Certificate in Virtual Design & Construction Process Management Classroom + Synchronous E-Learning (TGS-2022012531)	S\$3,000	S\$1,598.13	S\$1,037.38

<sup>^</sup> The fees are inclusive of GST and are subject to change.

Participant must achieve at least 75% attendance and pass all assessments. BCA Academy reserves the right to recover the funded amount from the participant (self-sponsored) or employer (company sponsored) if participant did not meet the eligibility criteria. Details of SSG's funding can be found in <https://www.enterprisejobskills.gov.sg/content/upgrade-skills/course-fee-and-absentee-payroll-funding.html>

## WITHDRAWAL

Withdrawal notice must be made in writing to BCA Academy via <https://www.bca.gov.sg/feedbackform/>. The following stated days are pegged to the modular certificate commencement date:

- 14 days or more, 10% cancellation fee
- Less than 14 days but more than 3 working days, 25% cancellation fee
- 3 working days or less, 100% cancellation fee

## REGISTRATION

Visit BCA Academy Online StoreFront (OSF) @ <https://eservices.bcaa.edu.sg/registration/#/login>

### Course codes:

Modular Certificate A: 79012A  
Modular Certificate B: 79012B

