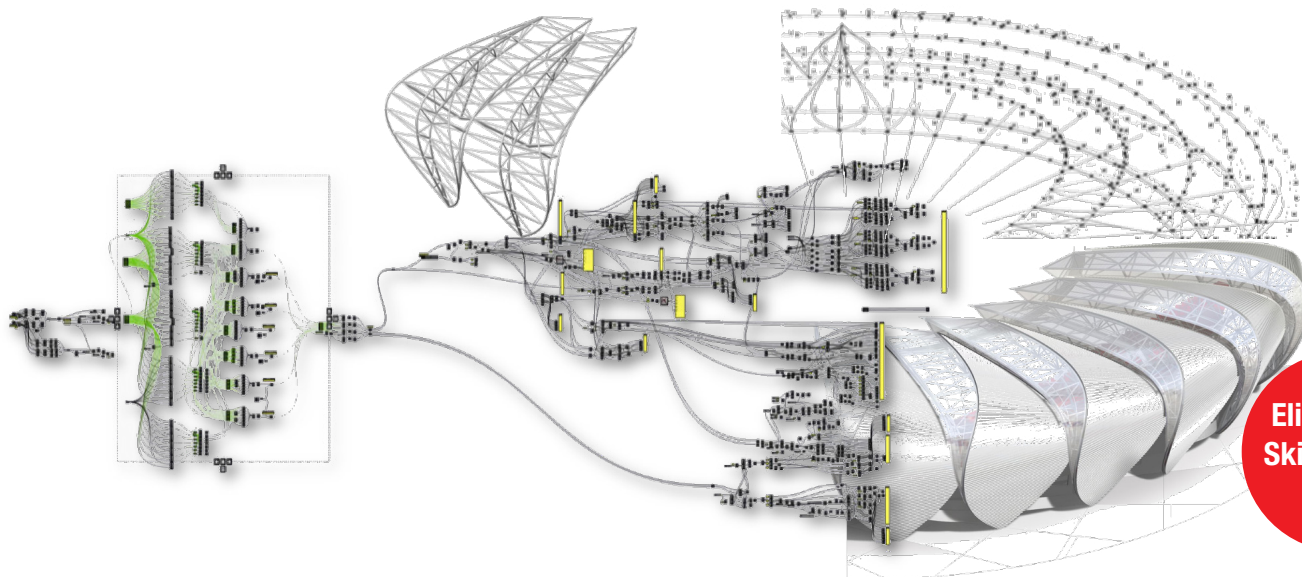


**STACKABLE MODULAR CERTIFICATES**

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 COMPUTATIONAL BIM**

Computational BIM refers to the innovative problem-solving approach where users define algorithms to have automated generation and manipulation of building-related information for better work efficiency, effectiveness and productivity gains.

BCA Academy offers Specialist Diploma programmes in Computational BIM to equip Built Environment professionals with skills and knowledge to apply computational BIM tools for automation, optimisation and validation of different types of project. Under the modular certificate A (Course Code 79020A), learners will acquire knowledge on basic programming syntax to script across various types of computational BIM softwares. Learners could then specialise in Computational BIM for building (Course Code 79020B) projects and learn about the applications, workflows, management and manipulation of data generated from BIM models for construction use, enabling better collaboration between various stakeholders.

**Specialist Diploma in Computational BIM (Building) (SDCBB)**

**COURSE CODE: 79020A**

**MODULAR CERTIFICATE A**

**Certificate in Computational Thinking and Programming**

**Jan to Mar / Jul to Sep**

This modular certificate equips learners with knowledge on basic coding and its application in customising BIM programmes.

**COURSES OFFERED:**

- Introduction to Computational BIM<sup>^</sup>
- Basic Coding and Programming
- Project

<sup>^</sup> Holders of BCA Certificate of Successful Completion in Computational BIM & graduates of BCA Diploma in Digital Engineering will be exempted from this subject

**COURSE CODE: 79020B**

**MODULAR CERTIFICATE B**

**Certificate in Computational BIM Applications (Building)**

**Apr to Jun / Oct to Dec**

This modular certificate enables learners to apply simple scripts to supplement computational BIM tools. Learners will learn to use computational methods to automate, optimise and benchmark processes within a building's lifecycle.

**COURSES OFFERED:**

- Computational BIM Tools
- Computational BIM (Building) Applications
- Project

**FEEDBACK FROM PAST STUDENTS**

“The instructors have really inspired me to go deeper into Computational BIM, they have motivated me to look beyond my current work flow and seek out tools on how it can be improved. Looking forward to the next level of courses for this topic. Hoping to experience it on live classes is another wish.”

“Overall it's fun and I learned a lot, appreciate the lecturer's adaptation of up to date technology & software.”

“The arrangement for synchronous e-learning was an eye opening and interesting session. The continuous tutorial also allow us to objectively identify the knowledge we obtained from this course.”

“Really commend the lecturers and facilitator for sharing thier expertise and professionalism during the course. This is my 3<sup>rd</sup> Specialist Diploma course in BCAA but this is the 1<sup>st</sup> time for full time learning via online which i think is quite successful.”

## ENTRY REQUIREMENT

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

Applicant must be a Singapore Citizen or Permanent Resident or holder of valid employment pass/work permit; and possess one of the following qualifications:

- a diploma (min. course duration of 2 years) or equivalent qualification in a relevant discipline
- a degree (min. course duration of 3 years) or equivalent qualification in a relevant discipline
- a diploma / degree / equivalent qualification in any discipline with at least 3 years of working experience in the built environment or related fields.

**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) 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

**Specialist Diploma in Computational BIM (Building)** - This Specialist Diploma Programme is designed for all professionals in the built environment sector who are keen to use computational methods for building projects.

## 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 Computational BIM (Building)(SDCBB)**.

## EXEMPTION

There will be exemption of attendance for "Introduction to Computational BIM" in Modular Certificate A for participants who have been awarded BCA Certificate of Successful Completion in Computational BIM or BCA Diploma in Digital Engineering (DDE).

### Duration:

Modular Certificate A (48 hrs)  
Modular Certificate B (60 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\* (incl of GST):

S\$3,500 (per modular certificate)

\*Refer to 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 considered on a case-by-case basis.

## 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:**

**SDCBB Modular Cert A:** 79020A

**SDCBB Modular Cert B:** 79020B



## SSG FUNDING^ 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 Computational Thinking and Programming Classroom + Synchronous E-Learning (TGS-2022014137)	S\$3,500	S\$1,864.48	S\$1,210.27
Certificate in Computational BIM Applications (Building) Classroom + Synchronous E-Learning (TGS-2022012530)	S\$3,500	S\$1,864.48	S\$1,210.27

^ 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>