

**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

**NEW**

Specialist Diploma in

# DESIGN FOR MANUFACTURING & ASSEMBLY (SDDfMA)

Eligible for  
SkillsFuture  
Credit



Design for Manufacturing and Assembly (DfMA) is the design process that focuses on the ease of off-site manufacturing and efficiency of on-site assembly. This is a revolutionised approach applied to the construction industry that enables faster, safer and more reliable construction process. To enjoy the benefits of DfMA, practitioners need to re-think the design approaches and construction processes of their projects. This programme equips learners with the knowledge and skills to apply DfMA principles in construction projects, so as to achieve higher construction productivity.

**Duration:** 3 months per modular certificate

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

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

**Fees\*** (inclusive of GST):

S\$2,300 (modular certificate A)

S\$3,700 (modular certificate B)

\*SSG funding may be available for selected modular certificate(s). Details of SSG's funding can be found in <https://www.enterprisejobskills.gov.sg/content/upgrade-skills/course-fee-and-absentee-payroll-funding.html>

**Assessment:** Continuous and Project Based

Registration closes 2 weeks prior to modular certificate commencement or when the class is fully subscribed, whichever comes first. Registration can remain open until course commencement date if training spaces are still available.

## Certificate in DfMA Principles and Applications

### MODULAR CERTIFICATE A:

Jan to Mar / Jul to Sep

This certificate equips learners with essential concepts, principles and design considerations of DfMA. Learners will gain first-hand knowledge on the adoption and application of DfMA in a real world context.

#### COURSES OFFERED:

- PPVC and MET
- Integrated Components/Systems
- DfMA for Facade
- DfMA Planning & Management
- Project

## Certificate in Management of Productive Technologies

### MODULAR CERTIFICATE B:

Apr to Jun / Oct to Dec

This Certificate equips learners with the knowledge and skill to apply digital technology and lean construction process for project delivery. The advanced technologies applicable for the industry, such as those related to prefabrication and volumetric construction, will also be covered.

#### COURSES OFFERED:

- Overview of Productive Building Technologies
- Principles of Integrated Digital Delivery (IDD)
- Principles of Lean Construction
- Advanced technologies in construction
- Project

Note:

1. Participants who complete Modular Certificate A and B within 3 years will be awarded Specialist Diploma in Design for Manufacturing and Assembly.
2. Participants with the Specialist Diploma in Construction Productivity could obtain the Specialist Diploma in Design for Manufacturing and Assembly after completing the Certificate in DfMA Principles & Applications.

## ENTRY REQUIREMENT

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 sector.

## 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 Design for Manufacturing and Assembly (SDDfMA)**.

## WITHDRAWAL

Withdrawal notice must be made in writing to BCA Academy via **bca\_academy@bca.gov.sg**.

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

Please note that applicants are required to top-up the short-fall in funding amount if nett fee is paid upfront.

## REGISTRATION



Visit BCA Academy

Online StoreFront (OSF)

@ [https://eservices.](https://eservices.bcaa.edu.sg/registration/#/login)

[bcaa.edu.sg/registration/#/login](https://eservices.bcaa.edu.sg/registration/#/login)

### Course codes:

Modular Certificate A: 79010A

Modular Certificate B: 79010B