

INTRODUCTION

Building Information Modelling (BIM) has been transforming the processes that built environment projects are designed, engineered, built and operated by enabling greater integration and collaboration among the developers, designers, builders and fabricators across the value chain. In order to support the built environment industry to reap the benefits of BIM and increase BIM capacity and capability to drive for productivity, a 4-day Certification Course on BIM Management is designed to provide industry professionals with the knowledge to implement and execute a BIM project.

OBJECTIVES

The objectives of this course are:

- To strengthen the participants' understanding on BIM fundamentals, processes and benefits
- To equip participants the practical knowledge and skills to create Company BIM Deployment Plan and BIM Project Execution Plan
- To guide participants with necessary knowledge to execute a BIM project

CONTENTS

BIM FUNDAMENTALS

- BIM Definition and terminology
- The difference between 2D CAD, 3D CAD and 3D BIM
- Evolution of BIM (past, present, future)
- BIM Uses

BIM TECHNOLOGY

- Best Practice Approach to Federated Model
- BIM Software and File Formats
- Analysis Tools
- Shop Drawing and Fabrication Tools
- Construction Management and Review Tools
- File Sharing Tools
- Hardware, Graphics, and Peripherals

BIM DESIGN PROCESS

- Area and Space Planning
- Project Phases and Phased Design
- Design Options

DESIGN COORDINATION AND

DOCUMENTATION

- Multidisciplinary Coordination
- Design Review
- Clash Detection
- BIM Model Checking

DESIGN ANALYSIS

- Green Building Design
- BIM for Structural Analysis

CONSTRUCTION PLANNING AND COORDINATION

- Phase Planning (4D)
- Cost Estimating (5D)

BIM COMPANY DEPLOYMENT PLAN:

- BIM Adoption Approach
- Challenges in BIM Implementation
- Establishing BIM Environment
- BIM Return on Investment
- Phases in BIM Implementation
- Organizational BIM Vision
- Modelling Plan
- Staffing Plan
- System Implementation Plan
- Corporate Collaboration Plan
- Corporate Technology Plan

BIM PROJECT EXECUTION PLAN

- BIM Project Goals
 - BIM Uses
 - BIM Process Maps
 - BIM Information Exchanges
 - BIM Project Management
- ### BIM PROJECT EXECUTION PLAN
- Recommendation for Successful BIM Implementation
 - Case Studies

ASSESSMENT

PREREQUISITE

Applicants for this BIM Management Certification Course should possess experience in managing a building and construction project.

ASSESSMENTS AND AWARD

Certificate of Successful Completion (CSC) will be awarded to participants who meet the attendance requirement and passed the required assessments.



BLENDDED LEARNING

Comprises online and classroom session. May include pre-recorded session, live streaming/webinar and discussion forum, where applicable.

97th RUN

ONLINE LEARNING VIA WEBINAR:

- 14 Jun 2021 (9.00am to 1.00pm)
- 15 Jun 2021 (9.00am to 4.00pm)
- 16 Jun 2021 (9.00am to 1.00pm)
- 17 Jun 2021 (9.00am to 1.00pm)
- 18 Jun 2021 (9.00am to 3.00pm)

CLASSROOM LEARNING:

30 Jun 2021 (9.00am to 4.30pm)
Venue: BCA Academy

COURSE ASSESSMENT:

30 Jun 2021 (5.00pm to 6.00pm)
Venue: BCA Academy

FEES (incl of GST):

- S\$1,400.00 (without Subsidy)
 - S\$407.48[#] (with WTU funding support for eligible local participants)
- [#] For more information on the funding requirement, please refer to <http://www.bca.gov.sg/manpower/wtu.html>

TARGET AUDIENCE

Industry professionals in the built environment.

CPD POINTS

PEB: -
BOA-SIA: -
SGBC-GMAP Points: -



REGISTRATION

To register, please log into our Online StoreFront (OSF) at <https://eservices.bcaa.edu.sg/registration/#/> Login or scan QRcode and search for course code **77076**