BCA ACADEMY

BCA UEN: T08GB0005B

BLENDED LEARNING

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

ONLINE LEARNING VIA WEBINAR
Frequency: Tri-annual

CLASSROOM LEARNING:
Time: 9.00am to 4.00pm
Venue: BCA Braddell Campus

COURSE ASSESSMENT:
Time: 5.00pm to 6.00pm
Venue: BCA Braddell Campus

DURATION: 29.5 hrs

FEES (incl of GST): **S$1,400.00**
SkillsFuture Singapore (SSG) funding is available for eligible participants as follows:

Singaporeans 40 years old and above <u>OR</u> SME company sponsored Singaporeans or Singapore PRs. Fee payable after 70% funding support	**S$484.11** *(incl of GST)*
Singaporeans, Singapore PRs and non SME company sponsored participants. Fee payable after 50% funding support	**S$745.79** *(incl of GST)*

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** *(TGS-2022013339)*

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

Certification Course in BIM Management

CLASSROOM + SYNCHRONOUS E-LEARNING

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

TARGET AUDIENCE

Industry professionals in the built environment.

PREREQUISITE

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

ASSESSMENTS AND AWARD

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

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**