Building Information Modeling (BIM)

Enhancing Productivity and Efficiency with Future-Proof Construction Technology

Faculty Director Credentials

James Brown
BIM Consultant and Founder
iM4 Ltd

- Leading strategic BIM consultant with more than 16 years of experience
- Trusted consultant and in-house trainer for major retailers such as ASDA WalMart and Sainsbury’s
- Founder of BIM for Retail and member of the review group for the UK Government’s BIM Working Party Paper as well as the Civil Engineering Industrial Advisory Board at the University of Bradford

James Brown is a UK-based leading strategic BIM consultant with more than 16 years of experience in the construction industry. James has been leading 2 major retailers in the U.K. to mandate the use of BIM since 2006 and he has helped many of his clients such as ASDA WalMart and Sainsbury’s to achieve substantial improvement in cost efficiency, quality and time. As the Head of Model Development and Construction Design Standards at ASDA WalMart, he was responsible for the ASDA’s BIM Execution Plan and strategies to help the organization to move to BIM Level 3.
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In 2010, James founded the BIM for Retail group with the collaboration of UK retailers to promote the usage and adoption of BIM technology. Some of the group members are ASDA Walmart, B&Q, Jon Lewis, Marks and Spencer, Next, Waitrose, and Specsavers etc. The group not only receives close support from the Cabinet Office’s BIM Task Force but also offers advice for the contents of Technology Strategy Board’s funding projects that drive related industry research and development.

In addition to his work with BIM for Retail, James also sat on the review group for the development of UK Government’s BIM Working Party Paper and the Civil Engineering Industrial Advisory Board (CEIAB) at the University of Bradford.
According to a survey by McGraw-Hill Construction, Building Information Modeling (BIM) has brought significant benefits such as reduced errors and reworks for architects, engineers and contractors as well as improved the ability to work collaboratively between owners and relevant stakeholders. However, the adoption of BIM technology in Singapore has been relatively slow and it is large due to the lack of expertise in BIM technology.

Designed for Architecture, Engineering and Construction industry professionals, this intensive 2-day program will equip you with the necessary knowledge and tools to effectively leverage and build BIM capabilities in your organization. Led by James Brown, a leading strategic BIM expert and trusted consultant for major retailers, you will understand how BIM works, assess your organization’s BIM maturity and quantify return on investment to gain management support. You will also gain a comprehensive understanding of international BIM standards that enabled you to evaluate their pros and cons.

Through group discussions and case studies, you will examine the use of BIM in the Planning, Design, Construction and Operation phase of a project and how to fully capitalize on the capabilities of BIM. Last but not least, you will also learn to effectively manage information and interoperability to successfully implement BIM in your organization. At the end of the program, you will be equipped with the skills and knowledge to help your organization develop BIM capabilities and translate it into tangible financial benefits.

Note: GST is applicable only to participants from Singapore registered companies. Check your eligibility for 40% Cash Back at IRAS website.
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3 - 4 October 2016 | Shangri-La Hotel, Singapore

PROGRAM INTRODUCTION

With increasing government attention to improve construction productivity, companies in the AEC industry face the challenges of greater competition and tighter regulatory requirements. Emerging technologies such as Building Information Modeling is playing a greater role in helping companies to increase productivity and reduce costs.

However, majority of the AEC professionals are unfamiliar with BIM and lack of the relevant experience and expertise in using BIM in their projects. Companies also do not understand the level of maturity that suits their organizational needs, therefore, are unable to utilize and build BIM capabilities.

Therefore, this intensive 2-day program is designed for Architecture, Engineering and Construction (AEC) industry professionals to acquire the necessary knowledge and tools to effectively leverage and build BIM capabilities in your organization. Led by James Brown, a leading strategic BIM expert and trusted consultant for major retailers, you will understand how BIM works, assess your organization’s BIM maturity and quantify return on investment to gain management support. You will also gain a comprehensive understanding of international BIM standards that enabled you to evaluate their pros and cons.

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WHO WILL BENEFIT THE MOST

This program is designed for but not limited to
• Director, Head of
  o Construction
  o Project Management/ Project Management Office
  o Engineering
  o EPC/ EPCM
  o BIM Implementation
• Senior Project Manager
• Senior Construction Manager
• Senior Project Engineer/ Engineering Manager
• CAD/ BIM Manager
• Modeler/ Designer/ Draftsperson
• Quantity Surveyor
• MEP/ Civil/ Structural Engineer

from the following industries:
• Construction
• Infrastructure
• Civil Engineering
• Real Estate/ Property
• Hotel/ Hospitality
• Oil & Energy, Mining, Refining
• Petrochemical& Chemicals
• Manufacturing

This course is relevant to all construction projects including civil infrastructure, building, earthwork, oil & gas plant, port, marine structure and so on.

LEARNING OBJECTIVES

• Understand and distinguish BIM, DfMA, IDP and other related concepts
• Explore the different software and platforms for BIM and learn their advantages and disadvantages
• Use BIM to improve efficiency in different phases of the construction life cycle
• Assess your organization’s BIM maturity and argue the business case for BIM
• Develop Organizational BIM Development Plan and BIM Project Execution Plan to leverage on BIM at both organizational and project level
• Understand how to improve information management processes to ensure compatibility of data and effective use of information
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CPD CERTIFICATION DETAILS

This course has been independently certified as conforming to accepted CPD guidelines. On average, this executive program contributes 16 hours toward your CPD.

Delegates must register at the start and close of each workshop to be awarded a certificate of completion.

PROGRAM OUTLINE

DAY ONE

What is BIM?
- Understanding BIM and Related Concepts such as DfMA, IPD
- Managing Information
  - Software Types Available
  - Work Flows
  - Data Exchange Types
  - Level of Information vs. Level of Development
  - Interoperability
  - Who needs What Type of Information and Why
- Difference between Traditional Construction and BIM
- Why Make the Transition to BIM

Regulatory Environment
- BIM Mandates around the World
- Where Singapore Sits
- Tools available around the world & their pros & cons

BIM by Discipline: Plan, Design, Construct & Operate (Part 1)
- Plan: Phase Modelling, Cost Estimation, Site Analysis, Program Analysis
- Design: 3D Modeling, Design Review, Drawing Production, Engineering Analysis, Sustainability Analysis, Code Validation

BIM by Discipline: Plan, Design, Construct & Operate (Part 2)
- Construct: 3D Modeling, 4D Phasing, 5D Cost Estimation, Coordination, Clash Detection, CAVE, Fabrication, Field Management, Record Modeling
- Operate: Record Modeling, Building Maintenance Schedules, Asset Management, Space Management, Disaster Planning

DAY TWO

Review of Day 1

Maturity Assessment
- Organizational BIM Maturity Assessment
  - Where You Are
  - How Far Do You Want to Mature?

Maturity Result
- Analysing Your Maturity Result
  - Benchmarking against International Standard and Peers
  - Developing Your Organizational Roadmap for BIM Maturity
  - What Needs to Be Done to Achieve the Transition

The Business Case
- Understanding Your Processes and Driver for BIM Adoption
- Identify Areas Where BIM Work Best for Your Organization
- Quantify Return on Investment

Recap, Summary and Close
REGISTRATION PAGE

BOOKING CONTACT

Job Title: ___________________________ Department: ___________________________
Telephone: ________________________ Fax: ________________________________
Email: ______________________________ Date of Birth: ________________
Organization: __________________________ Address: _______________________
Postal Code: ________________________

I would like to receive more information on hotel accommodation using Clariden Global corporate rate.

Please register the following participants for this program:

1st Participant Name (Mr/Mrs/Ms): __________________________
Job Title: ___________________________ Department: __________________________
Telephone: ________________________ Fax: ________________________________
Email: ______________________________ Date of Birth: ________________
Organization: __________________________ Address: _______________________
Postal Code: ________________________

2nd Participant Name (Mr/Mrs/Ms): __________________________
Job Title: ___________________________ Department: __________________________
Telephone: ________________________ Fax: ________________________________
Email: ______________________________ Date of Birth: ________________
Organization: __________________________ Address: _______________________
Postal Code: ________________________

3rd Participant Name (Mr/Mrs/Ms): __________________________
Job Title: ___________________________ Department: __________________________
Telephone: ________________________ Fax: ________________________________
Email: ______________________________ Date of Birth: ________________
Organization: __________________________ Address: _______________________
Postal Code: ________________________

4th Participant Name (Mr/Mrs/Ms): __________________________
Job Title: ___________________________ Department: __________________________
Telephone: ________________________ Fax: ________________________________
Email: ______________________________ Date of Birth: ________________
Organization: __________________________ Address: _______________________
Postal Code: ________________________

Program Fees

1st Early Bird Fee: S$2,595 (Registration and payment must be received by 8 August 2016)
2nd Early Bird Fee: S$2,795 (Registration and payment must be received by 5 September 2016)
Regular Fee: S$2,995

Group Discount: For 2 registrations from the same company and billing source, the 2nd participant enjoys a 10% discount.

Note: GST is applicable only to participants from Singapore registered companies.

Important Notice: Payments are required with registration and must be received prior to the course to guarantee your place.

PAYMENT METHODS

By Cheque/Bank Draft:
Made payable to CLARIDEN GLOBAL PTE LTD and mail to: 3 International Business Park, #04-29, Nordic European Centre, Singapore 609927.

By Telegraphic Transfer To:
Bank Name: DBS BANK
Bank Branch code: 027
Bank Address: 6 Shenton Way, DBS Building, Singapore 068809
Bank Account No: 027-903583-8
Bank Account name: Clariden Global Pte Ltd
SWIFT Code: DBSSSGSG

Please note that all bank charges are to be borne by participants. Please ensure CLARIDEN GLOBAL PTE LTD receives the full invoiced amount.

Note: Please include invoice number on all payment types and your company’s name in your payment instructions for our reference.

CANCELLATIONS AND SUBSTITUTIONS

Once we have received your booking, the place(s) are confirmed. No refunds will be made for any cancellations, however, program credits of equivalent value only applicable for Clariden Global events will be provided. Credits can only be redeemed for 1 program and is valid for only one (1) year from date of issue.

Substitution with a qualified candidate is allowed by providing at least 5 working days of advance notice to Clariden Global. One time substitution is allowed with no charges. Subsequent substitutions will be charged 10% admin fee.

ALL CANCELLATIONS MUST BE RECEIVED IN WRITTEN FORM

How to Register and Pay

An invoice and registration confirmation will be sent within 7 days, please contact us if you have not heard from us within 7 days. Payment can be made by credit card, by bank transfer or by cheque.

All payments must be received in advance of the event.

Accommodation

Accommodation is not included in the program fee but you will be entitled to use our corporate rate for your accommodation. Information will be sent along with your registration confirmation.

Enjoy 40% Cashback

Productivity and innovation credit (PIC) scheme allows registered Singaporean businesses to claim 40% cash back or enjoy 400% tax deduction for training.

For more information, please visit http://www.iras.gov.sg/irashome/picredit.aspx

Visit us at www.claridenglobal.com for upcoming events

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BY CHEQUE / BANK DRAFT:

All payments must be received in advance of the event.

ALL PAYMENTS MUST BE RECEIVED IN ADVANCE OF THE EVENT.

DATE AND LOCATION

This executive program will be held at:

Shangri-La Hotel, Singapore
3 - 4 October 2016
22 Orange Grove Road,
Singapore 258350
Tel: +65 6737 3644
Fax: +65 6737 3257
Website: http://www.shangri-la.com/en/property/singapore/shangril

The fee for this two-day executive program includes all written materials, lunch and refreshments.

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