STANFORD CIFE-BCA Advanced Management Program on
VIRTUAL DESIGN & CONSTRUCTION

50% WTU funding is available

Qualify for Productivity & Innovation Credit (PIC) Scheme
• How to take full advantage of **BIM** for your projects?
• How to **INTEGRATE** modern design and construction technologies with the latest management approach for high-performing project delivery?
• How to derive the business ROI's through use of digital design and construction.

**PROGRAM STRUCTURE**

**MODULE A: 2-HOUR INTRODUCTORY WORKSHOP IN SINGAPORE**
*(20 June 2014, 9-11am, BCA Academy)*
This workshop aims to provide a thorough understanding of the individual VDC concepts and VDC as a whole. With that, the participants would have a good idea on what to expect and what could be achieved from the whole program. This workshop is conducted by Dr Calvin Kam, the Director of Industry programs of CIFE at Stanford University.

**MODULE B: 6-DAY VDC TRAINING COURSE IN US**
*(14-19 July 2014, Stanford University, US)*
During the 6-day training, participants are able to gain first-hand experience on the applications, challenges and benefits of VDC through lectures, hands-on and visits of project sites and facilities that have successfully adopted VDC approach.

This workshop is conducted by Professor Martin Fischer, Director of the CIFE at Stanford University; Assoc Prof Calvin Kam, Director of Industry Programs at CIFE; Dr Atul Khanzode, lead DPR's Construction Technologies and Consulting Groups; and Dr Mike Williams, Executive Director of the Project Production Institute at Strategic Project Solutions in San Francisco, CA.

**MODULE C: 6-MONTH PRACTICUM WITH MONTHLY CONSULTATION IN SINGAPORE**
*(Each monthly consultation would be 3-hour, starting tentatively from August to November 2014; and in January and February 2015)*
This module requires participants to apply VDC methodology (planning, adoption, technology or performance perspective) in an on-going project or for their organisation, and develop specific skills in integrated collaborative process within the project team. The project is guided by experienced facilitators from CIFE at Stanford University and bimSCORE, who will meet the participants monthly and guide them towards the final report.

**MODULE D: 2-DAY INTEGRATION WORKSHOP IN SINGAPORE**
*(Tentatively Mid April 2015)*
Program participants will share their VDC implementation experience obtained in the practicum period. Participants could also relate VDC theory and practice to establish VDC implementation roadmap for their future projects. This workshop is conducted by CIFE at Stanford University and bimSCORE instructors.

**PROGRAM OVERVIEW**

Virtual Design and Construction (VDC) combines modern design and construction technologies (BIM) with the latest management approaches, including collaboration, production management, and continuous improvement, to the design, construction, and operation of capital assets. Many organizations have started to implement BIM or lean management or collaborative work practices, but few have put all these recently emerging techniques together into a comprehensive and effective approach to create high-performing facilities. Through lectures, hands-on experiences, and feedback, this program teaches professionals how to combine BIM and collaboration and production management to create a culture and practice of management by objectives and continuous improvement that works for design, construction, and operation of building, infrastructure, and industrial facilities.

The Stanford University, through its Centre for Integrated Facility Engineering (CIFE), has been conducting VDC certification programs since 2008 and to date, dozens of firms and hundreds of participants in North America, Latin America, and Europe have benefited from the program which has led to the successful application of VDC in actual practices.

BCA Academy, together with Stanford CIFE and bimSCORE, is jointly offering this program in Singapore to enable the local industry to reap the possible benefits of VDC. The Stanford CIFE-BCA Advanced Management Program (AMP) on Virtual Design and Construction will include lectures, site visits and practicum conducted in Singapore and United States to provide participants the opportunity to learn from experts from the CIFE at Stanford University and bimSCORE and apply what they have learnt in their organisations as well as development projects.

---

*BCA Academy reserves the right to amend the programme without prior notice.*
PROGRAM FEE (inclusive of GST)
With WTU Funding: SGD6,962.53 / SGD6,392.53*          Without WTU Funding: SGD13,070 / SGD12,000*

*Discounted fee is only applicable for:
• 'Early Bird' who register on or before 14 May 2014
• Company sending in group of 2 or more participants
• Project team sending in group of 2 or more participants
• BCAA MSc participants
• BCA Young Leaders
• BCAA Alumni Card Holders

Fee includes course materials, lunches and local ground transportation to and from the airport
Fee does not include airfare, accommodation and other meal expenses

FUNDING AVAILABLE– WTU FUNDING AND PIC SCHEME
WTU Funding is available for this course which provides course fee subsidies of 50% of the course fees before GST. The funding is only applicable for local participants (Singaporean and Singapore Permanent Residents) who have not tapped on WTU funding before. Participants must meet 75% attendance requirement and submit the final project report.
For more information on funding conditions, please refer to http://www.bca.gov.sg/Workforce/wtu.html

PRODUCTIVITY & INNOVATION CREDIT (PIC) SCHEME:
PIC Scheme is available for all companies. Companies can enjoy 400% tax deductions/allowances and/or 60% cash payout for investment in innovation and productivity improvements. Training of employees is one of the six qualifying activities allowed under the PIC scheme.
For more details on PIC scheme, please visit http://www.iras.gov.sg/irashome/PICredit.aspx

WHO SHOULD ATTEND
The target participants for this course are Senior Executive and Management, BIM Directors, BIM Managers who are responsible for setting organizational strategic business planning or BIM direction at organization or project level.
It is strongly recommended that each company should register at least 2 levels of participants – one being a senior management member who strategizes and drives project implementation, and one managerial level staff who does the actual implementation work.
• Building Owners  • Developers  • Consultants  • Contractors  • Facility Managers

PRIOR KNOWLEDGE / EXPERIENCE
The Senior Management should possess experience in managing building or construction projects and preferably with some practical knowledge on application of BIM in projects.
The Managers responsible for implementation of VDC/BIM should possess at least a diploma qualification and experience in managing building or construction projects with BIM.

CPD POINTS
• PEB: Pending
• BOA-SIA: Pending
## STANFORD CIFE-BCA Advanced Management Program

### Virtual Design and Construction

Note: If participants of a project team are from different companies, each of them needs to fill up the form separately.

### PARTICIPANT’S DETAILS

<table>
<thead>
<tr>
<th>Name (Dr/Mr/Ms)*</th>
<th>Date of Birth (DD/MM/YYYY)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Designation</th>
<th>Mailing Address</th>
<th>Email</th>
<th>Nationality</th>
<th>Office No.</th>
<th>Mobile No.</th>
</tr>
</thead>
</table>

(for individual applicant, please provide residential mailing address)  
* Please delete accordingly

### COMPANY DETAILS

- **Company Name**
- **Company Address**
- **Contact Person**
- **Contact No**
- **Email**
- **Company UEN No.**

### AIRFARE AND ACCOMMODATION RESERVATIONS

Participants are encouraged to book their accommodation and air tickets through BCA Academy.

- **HOTEL ACCOMMODATION - A 3 to 4 star hotel near Stanford University**
  
  Please note that Hotel and Room Rates are subjected to availability and final confirmation. The estimated room rates are about USD 300 per day. Hotel room rates quoted are exclusive of taxes and subjected to confirmation.

- **AIR TICKET - INTERNATIONAL FLIGHTS**
  - SQ Return Ticket SIN-SAN FRANCISCO-SIN (Economy Class): Estimated Fare SGD 4,000*
  - SQ Return Ticket SIN-SAN FRANCISCO-SIN (Business Class): Estimated Fare SGD 12,000*
  
  *Please tick accordingly. Fares quoted are subject to change till booked / ticketed. VISA requirements to USA also apply. No cancellation of tickets is allowed once the tickets are issued.

To be completed by Company (authorised personnel) or Individual Applicant:

<table>
<thead>
<tr>
<th>Name:</th>
<th>Signature:</th>
<th>Date:</th>
</tr>
</thead>
</table>

### ENQUIRIES

- **Tel:** 6248 9999  
- **Fax:** 6258 0558  
- **Email:** bca_academy@bca.gov.sg  
- **Website:** www.bcaa.edu.sg

---

*Participants are encouraged to book their accommodation and air tickets through BCA Academy.*

**HOTEL ACCOMMODATION - A 3 to 4 star hotel near Stanford University**

Please note that Hotel and Room Rates are subjected to availability and final confirmation. The estimated room rates are about USD 300 per day. Hotel room rates quoted are exclusive of taxes and subjected to confirmation.

**AIR TICKET - INTERNATIONAL FLIGHTS**

- SQ Return Ticket SIN-SAN FRANCISCO-SIN (Economy Class): Estimated Fare SGD 4,000*
- SQ Return Ticket SIN-SAN FRANCISCO-SIN (Business Class): Estimated Fare SGD 12,000*

*Please tick accordingly. Fares quoted are subject to change till booked / ticketed. VISA requirements to USA also apply. No cancellation of tickets is allowed once the tickets are issued.*

---

### CONDITIONS ON REPLACEMENT AND WITHDRAWAL REQUEST

- Replacement request in writing must reach BCA Academy on or before 13 June 2014
- Withdrawal request in writing that reaches BCA Academy on or before 16 May 2014: 90% refund of the program fee
- Withdrawal request in writing that reaches BCA Academy after 16 May 2014: No refund of program fee

---

### FOR ENQUIRIES ON ADMINISTRATION AND LOGISTIC MATTERS

Please contact Ms Chamine Jong at 6248 9912 or email her at chamine_jong@bca.gov.sg

---

### FOR ENQUIRIES ON THE PROGRAM DETAILS

Please contact Ms Truc Nguyen at 6730 4538 or email her at nguyen_truc@bca.gov.sg