



建造專業
進修院校

SCHOOL OF
PROFESSIONAL
DEVELOPMENT IN
CONSTRUCTION



CIC ACCREDITED
BIM COORDINATOR COURSE
建造業議會認證建築信息模擬協同課程



香港
建造
學院

HONG KONG
INSTITUTE
OF
CONSTRUCTION



CITF 建造業
創科基金
CITF Pre-approved Course

BMCD / BMCE

Professional Certificate for Building Information Modelling (BIM) Coordinator

建築信息模擬協調員專業證書

To train up the project coordinator to master necessary BIM knowledge, and to satisfy the requirement of completing a CIC-Accredited BIM Coordinator Course for applying for certification of BIM Coordinator.

培訓項目協調員以掌握建築信息模擬技術，並滿足其申請建造業議會「建築信息模擬協調員認可」對完成建造業議會認證之有關課程的要求。

	BMCD	BMCE
Lecturer 講師	Professionals 專業人士	
Medium of Instruction 授課語言	Cantonese supplemented with English technical terms 廣東話輔以英文技術用語 Only English version of the computer software is used for teaching in class 本課堂以英文版本的電腦軟件教學	
Mode of Attendance 授課形式	Part-time day course 日間部份時間制： 09:00 - 18:00	Part-time evening 夜間部份時間制： 19:00 - 22:00
Duration 授課期	8 hours x 6 sessions 8小時 x 6堂	3 hours x 16 sessions 3小時 x 16堂
Award of Certificate 證書頒發	1. Completion Certificate (i) Attended at least 42 hours or above (including 3-hour examination); (ii) Completed all continuous assessments (iii) Passed the final assessments (iv) Obtained 50% or above in the programme average. 2. Certificate of Attendance – Attended 42 hours or above. 1. 結業證書 (i) 出席42小時或以上課程 (包括3小時考試); (ii) 完成所有持續評核; (iii) 於期末評核取得合格成績; (iv) 取得課程平均分50分或以上。 2. 出席證書 - 出席課程42小時或以上	
Venue 上課地點	HKIC Kowloon Bay Campus, 44 Tai Yip Street, Kowloon Bay, Kowloon 九龍 九龍灣大業街 44 號香港建造學院九龍灣院校	
Admission Requirements 入學條件	1. Holder of a recognised diploma or above qualification in architecture, engineering, surveying, building or construction, offered by a post-secondary institution, or equivalent; and 2. Have at least two years' experience in relevant fields of project coordination in construction industry; and 3. Completion of at least one BIM software/platform training course at operation level as recognised by CIC, OR possession of any certification of BIM software at operation level issued by respective software developers. 1. 持有由認可專上教育機構頒發的建築、工程、測量或建造相關文憑；或同等學歷；及 2. 具備2年或以上建造業相關範疇的項目協調工作經驗；及 3. 曾修畢至少一個建造業議會認可的建築信息模擬軟件課程，或持有任何由建築信息模擬軟件開發商頒發的建築信息模擬軟件課程證書。	
Course Fee 課程費用	\$7,300	
Enquiry 查詢課程	2100 9000 / 3199 7211	
Recognition 資格承認	Successful completion of this programme is one of the criteria for registration as a CIC-certified BIM Coordinator. 完成此課程可符合其中一項申請註冊建造業議會認可建築信息模擬協調員的條件。	
Application Method 報名方法	Please apply online on SPDC portal 請透過建造專業進修院校的 網上報名系統 報名	

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建築信息模擬協調員專業證書

Course Content 課程內容
<p>1.1. BIM Concept</p> <p>1.1.1 BIM definitions and terminology</p> <p>1.1.2 The difference between 2D CAD, 3D CAD and BIM</p> <p>1.1.3 Concept of BIM in the whole life cycle of a built asset</p> <p>1.1.4 Value and benefits of adopting BIM</p> <p>1.1.5 Value of BIM for AM & FM (new)</p> <p>1.1.6 Challenges within existing working practices & how BIM addresses them</p> <p>1.1.7 Limitation of BIM (new)</p> <p>1.1.8 Challenges within existing working practices & how BIM addresses them</p> <p>1.1.9 How BIM affects the current practice in AECO industry</p>
<p>1.2. Local & Global Contexts, BIM standards and guidelines</p> <p>1.2.1 Local BIM standards & resources</p> <p>1.2.1.1 CIC BIM Standards</p> <p>1.2.1.2 Government BIM standards & resources</p> <p>1.2.2 Global context in BIM development</p> <p>1.2.3 Global BIM standards & resources</p> <p>1.2.3.1 ISO 19650</p> <p>1.2.3.2 BIM FORUM LOD Specification</p> <p>1.2.3.3 openBIM and collaborative formats</p>
<p>2.1. BIM Software</p> <p>2.1.1 Overview of common BIM software</p> <p>2.1.2 Characteristics, file format & version, strength and limitation of common BIM software and platform</p> <p>2.1.3 General hardware and software requirements for common BIM software</p> <p>2.1.4 Operation of relevant BIM authoring software</p> <p>2.1.5 Technically advise on the operation of relevant BIM software</p>
<p>2.2. Technologies</p> <p>2.2.1 Internet & cloud</p> <p>2.2.2 Laser scanning & photogrammetry</p> <p>2.2.3 Unmanned Aircraft System (UAS) / Drone</p> <p>2.2.4 GIS</p> <p>2.2.5 Internet of Things (IoT), mobile or smart devices</p> <p>2.2.6 VR/AR/MR</p> <p>2.2.7 RFID</p> <p>2.2.8 VDC</p> <p>2.2.9 Robotics</p> <p>2.2.10 Programming, automation and API</p> <p>2.2.11 MiC, DfMA and MIMEP</p> <p>2.2.12 Indoor positioning</p> <p>2.2.13 Upcoming trend of technology</p>



Course Content

課程內容

3.1. BIM Uses and Processes

- 3.1.1 General understanding of the workflows in local construction projects
- 3.1.2 BIM strategy, BIM uses, BIM processes
- 3.1.3 Key personnels in relation to BIM and roles and responsibilities
- 3.1.4 BIM related documents such as Employer's Information Requirement (EIR), Asset Information Requirement (AIR), BIM Execution Plan (BEP) throughout the full project life-cycle
- 3.1.5 Applications of various technologies to achieve BIM uses

3.2. Administration of the BIM projects as a project BIM coordinator

- 3.2.1 Project implementation following the BEP
- 3.2.2 Setup, creation and publishing of BIM models following BIM related documents such as BEP or BIM standards
- 3.2.3 Establish and maintain data structures or links throughout the BIM processes
- 3.2.4 Administration and maintenance of BIM models in BIM project
 - 3.2.4.1 Monitor overall BIM models work progress
 - 3.2.4.2 Coordination of BIM models with internal or other disciplines
 - 3.2.4.3 Maintain the BIM models appropriately and compile with BIM documents such as BEP or BIM standards

3.3. Execution of BIM Uses for single and multi-disciplinary coordination in BIM project

- 3.3.1 Spatial Coordination and 3D Construction Coordination (As stated in CIC BIM Standards General)
- 3.3.2 Phase Planning (4D Modelling) (As stated in CIC BIM Standards General)
- 3.3.3 Design Reviews (As stated in CIC BIM Standards General)
- 3.3.4 Drawing Production directly from BIM software / platform

3.4. Assist in BIM related meetings

- 3.4.1 Meeting with appointing party
- 3.4.2 Meeting with Lead Appointed Party and/or Appointed Parties
- 3.4.3 Internal meeting
- 3.4.4 Multidiscipline collaboration meeting
- 3.4.5 Site co-ordination meeting

4.1. Digital Information Management

- 4.1.1 Value of data & how it should be managed
- 4.1.2 Common data formats and open formats for BIM (BCF, IFC, IDM, bsDD, COBie, MVD, etc.)
- 4.1.3 Data exchange of relevant BIM software for single/multiple discipline(s) collaboration
- 4.1.4 Limitation of BIM software in relation to information management
- 4.1.5 Maintain proper Level of Development (graphics and information) of the dataset
- 4.1.6 Establish and maintain data structures or links within the BIM software/platform protocol
- 4.1.7 Maintain accurate data set such as templates, standards, libraries, project files, drawings, design specifications and project schedules

Course Content

課程內容

4.2. Common Data Environment (CDE)

4.2.1 CDE solution and workflow

4.2.2 Overview of CDE solutions in the market

4.2.3 Administration and maintenance of CDE including relevant project information standards and project information management methods and procedures

4.2.4 Limitation of CDE

4.3 Data Quality Control & Assurance across various stages

4.3.1 System checking (including software and hardware)

4.3.2 Model audit

4.3.3 Model checking including Clash avoidance strategies and Clash detection resolution methodologies

4.3.4 Audit reporting