



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調員課程



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 course materials and computer software is used for teaching in class 本課堂以英文版本的教材及電腦軟件教學 Only English versions of assignments and examination papers will be used for assessment in class. 本課堂採用英文版本習作及考試卷作評核	
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	
Re-Exam 補考	The course offers only one re-exam opportunity. The fee for the re-exam is HK\$100. 課程僅提供一次補考機會，補考費用為港幣\$100元	
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	BMCD / BMCE Please submit your online application through the course website. 請透過課程網站提交網上申請。	



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建築信息模擬協調員專業證書

Course Content

課程內容

1.1. BIM Concept

- 1.1.1 BIM definitions and terminology
- 1.1.2 Difference between CAD (2D/3D) and BIM
- 1.1.3 BIM in the context of whole life cycle of a built asset and smart city
- 1.1.4 Value and benefits of adopting BIM in the whole life cycle of a built asset
- 1.1.5 Collaborative working in BIM
- 1.1.6 Limitation of BIM
- 1.1.7 How BIM can affect the AECO practice and address the current challenges

1.2. Local, Mainland & Global BIM development and standards

- 1.2.1 Local BIM standards, publications and available resources
 - 1.2.1.1 CIC BIM standards and other related publications and resources
 - 1.2.1.2 Government BIM & BIM-AM related technical circulars, standards, guidelines and publications
- 1.2.2 BIM development in Mainland and global context
- 1.2.3 Mainland and international BIM standards, publications and initiatives
 - 1.2.3.1 Mainland BIM standards GB/T series
 - 1.2.3.2 ISO 19650 series
 - 1.2.3.3 openBIM and other collaborative formats

2.1. BIM Software and Platforms

- 2.1.1 Common BIM software and platforms for various trades
- 2.1.2 Key characteristics, file format & version, strength and limitation of common BIM software and platforms
- 2.1.3 Interoperability across common BIM software and platforms
- 2.1.4 Operation of relevant BIM authoring software
- 2.1.5 Technically advise on the operation of relevant BIM software

2.2. Technologies and Construction Related Applications

- 2.2.1 Internet & cloud
- 2.2.2 Laser scanning & photogrammetry
- 2.2.3 Unmanned Aircraft System (UAS) / Drone
- 2.2.4 GIS
- 2.2.5 Common Spatial Data Infrastructure (CSDI), 3D Digital Map and 3D Photo-realistic Model by the HKSAR
- 2.2.6 Internet of Things (IoT), Radio Frequency Identification (RFID), mobile or smart devices
- 2.2.7 Virtual reality (VR), Augmented Reality (AR) and Mixed Reality (MR)
- 2.2.8 Digital Twin
- 2.2.9 Robotics
- 2.2.10 Programming, automation and API
- 2.2.11 MiC, MiMEP and DfMA
- 2.2.12 Indoor positioning
- 2.2.13 Artificial Intelligence (AI), Machine Learning and Large Language Model (LLM)
- 2.2.14 Smart Site Safety System (4S) and Digital Works Supervision System (DWSS)

Course Content

課程內容

3.1. BIM Organisational Strategy and Requirements

- 3.1.1 General understanding of the workflows in local construction projects
- 3.1.2 Overview of BIM strategy, uses and organisation
- 3.1.3 Key personnel in relation to BIM and their roles and responsibilities
- 3.1.4 BIM related documents such as Exchange Information Requirements (EIRs), Asset Information Requirements (AIRs), BIM Execution Plan (BEP) to be applied during the execution of BIM projects
- 3.1.5 Utilise various technologies to achieve BIM uses

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

- 3.2.1 Execute the BIM project in accordance with BEP and BIM standards
- 3.2.2 Develop and maintain the BIM models, data structures and linkages in accordance with BEP and BIM standards for various work stages.
- 3.2.3 Supervise the progress of developing single or multi-disciplinary BIM models
- 3.2.4 Coordinate and utilise the BIM models with internal teams and cross-disciplinary project stakeholders
- 3.2.5 Support and contribute to BIM-related meetings and documentations, including communication of coordination issues and model updates

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

- 3.3.1 Spatial Coordination and 3D Construction Coordination
- 3.3.2 Phase Planning (4D Modelling)
- 3.3.3 Design Reviews
- 3.3.4 Drawing Generation directly from BIM software / platforms
- 3.3.5 As-Built Modelling

4.1. Digital Information Management

- 4.1.1 Execute the BIM information and model exchange for multi-disciplinary collaboration
- 4.1.2 Maintain the Level of Information Need (LOIN) in terms of graphical, non-graphical, and documentation requirements for various work stages
- 4.1.3 Maintain the data structures and linkages of the BIM models within the BIM software/platform protocol for various work stages
- 4.1.4 Maintain accurate data set such as BIM-related coding systems, classifications, templates, standards, libraries, project files, drawings, design specifications and project schedules for BIM project execution
- 4.1.5 Execute the information exchange across various open / proprietary file formats (e.g. BCF, IFC, IDM, bsDD, COBie, MVD, IDS, etc.)

Course Content

課程內容

4.2. Common Data Environment (CDE)

- 4.2.1 CDE and the workflow as per ISO 19650
- 4.2.2 Common CDE solutions in the market
- 4.2.3 Administer and maintain a CDE
- 4.2.4 Execute the information exchange in a CDE
- 4.2.5 Limitation of CDE

4.3 Data Quality Assurance & Audit across various work stages

- 4.3.1 BIM quality assurance and audit principles
- 4.3.2 Execute the BIM quality assurance, audit and checking for various work stages
- 4.3.3 Produce BIM quality assurance and audit reports for various work stages