



Seminar on Certification of BIM Qualification

28 December 2023
Professional Certification Committee

Objectives of certification



To facilitate members to continuously attain requisite certification or qualification to perform specified tasks or duties in the engineering field.

- Building Information Modelling
- Environmental Impact Assessment
- Stage Engineering
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Features of certification of BIM qualification

Enhance capacity and competence of members in utilization of BIM

Core competencies specifically for members in addition to CIC core competencies

Streamlined procedures to obtain Eng BIM Pro & CCBM or Eng BIM Coord & CCBC in one application, fee and interview



BIM training with engineering elements befitting the needs of members

Info of Eng BIM Pro and/or Eng BIM Coord will be included in a public accessible register

Eng BIM Pro
Eng BIM Coord

BIM Training

- Accredited by the Construction Industry Council
- Offered by the Vocational Training Council via Hong Kong Institute of Vocational Education
- With content tailor-made for members
- HKIE members as guest lecturers to share their Discipline-specific BIM experience



HKIE Eng BIM Pro Course

Certificate for Building Information Modelling Manager

| 36 hours in 3 months | EG424129Q |

This accredited CCBM course is designed for professionals who are responsible for managing BIM projects and teams. It covers advanced topics such as BIM workflows, project management, and BIM coordination.

Programme Fee

\$15,000 (**\$6,000 after Vplus subsidy**) Info: https://vplus.vtc.edu.hk/eng/index_en.html

Application: <https://vplus-etss.inter-apps.vtc.edu.hk/etss/#>

Attendance requirement

80%

Entry Requirements:

- (i) A HKIE member; AND
- (ii) Completion of a QF Level 4 or above programme that is deemed acceptable, with 2 years relevant working experience; AND
- (iii) Completion of basic BIM training



CIC ACCREDITED

BIM MANAGER COURSE

建造業議會認證建築信息模擬經理課程

HKIE Eng BIM Coord Course

Building Information Modelling for BIM Coordinator

| 45 hours in 3 months | CON4185X |

This accredited CCBC course is designed for professionals who are responsible for coordinating and managing BIM projects. It covers topics such as BIM implementation, data management, and collaboration.

Programme Fee

\$10,800 (**\$4,320 after Vplus subsidy**) Info: https://vplus.vtc.edu.hk/eng/index_en.html

Application: <https://vplus-etss.inter-apps.vtc.edu.hk/etss/#>

Attendance requirement

80%

Entry Requirements:

- (i) A HKIE member; AND
- (ii) Five HKDSE subjects at Level 2 or above, including English and Chinese Languages, or equivalent with one year working experience; OR Five HKCEE subjects at Grade E/Level 2 or above, including English and Chinese Languages, or equivalent with two years working experience; OR Completion of a QF Level 3 programme or above that is deemed acceptable with one year working experience; OR Mature applicants, i.e. those aged 21 or above with at least two years relevant working experience, can be admitted upon passing an entrance assessment.



CIC ACCREDITED
BIM COORDINATOR COURSE
建造業議會認證建築信息模擬協調員課程

Core Competencies of Eng BIM Pro

	HKIE Core Competency	CIC Core Competency
1	Possess the professional knowledge and expertise to serve as a BIM Team Leader in Engineering Practice, implementing BIM methodologies across various project stages.	--

Applicants for Eng BIM Pro are required to meet the core competencies set by both HKIE and CIC

Core Competencies of Eng BIM Pro

	HKIE Core Competency	CIC Core Competency
2	<p>BIM Initiation:</p> <ul style="list-style-type: none">➤ Adeptness in initiating BIM application and spearheading the BIM process for projects and/or client organisations, comprehensively comprehending BIM concept definitions and scope, as well as BIM standards and guidelines within both the Hong Kong and global contexts.	<p>BIM Initiation:</p> <ul style="list-style-type: none">➤ Ability to describe BIM concept definitions and scope, BIM standards and guidelines in the Hong Kong and global contexts.
	<p><u>Minimum achieved level:</u> Level 2 = Knowledge and understanding of the subject and its application</p>	

Core Competencies of Eng BIM Pro

	HKIE Core Competency	CIC Core Competency
3	<p>BIM Software and Technologies:</p> <ul style="list-style-type: none">➤ Proficiency in consulting or deciding on the BIM information production method and procedures.	<p>BIM Software and Technologies:</p> <ul style="list-style-type: none">➤ Ability to explain BIM software and the modelling process, and current and upcoming technologies.
<p><u>Minimum achieved level:</u> Level 2 = Knowledge and understanding of the subject and its application</p>		

Core Competencies of Eng BIM Pro

	HKIE Core Competency	CIC Core Competency
4	<p>BIM Uses and Processes:</p> <ul style="list-style-type: none">➤ Proficiency in advising or deciding on the BIM Uses and BIM software applications to manage and handle information production and delivery.	<p>BIM Uses and Processes:</p> <ul style="list-style-type: none">➤ Ability to understand BIM uses and BIM software applications, and to design and manage the overall process of a BIM project.
<p><u>Minimum achieved level:</u> Level 4 = Ability to perform the subject without supervision and advise others</p>		

Core Competencies of Eng BIM Pro

	HKIE Core Competency	CIC Core Competency
5	<p>Digital Information Management, Collaboration and Integration:</p> <ul style="list-style-type: none">➤ Competency in planning and executing the establishment of a Common Data Environment (CDE) solution and workflow to achieve quality information delivery.	<p>Digital Information Management, Collaboration and Integration:</p> <ul style="list-style-type: none">➤ Ability to plan and execute the setting-up of a common data environment and data quality control system for effective use and sharing of digital information in a BIM project.
<p><u>Minimum achieved level:</u> Level 4 = Ability to perform the subject without supervision and advise others</p>		

Core Competencies of Eng BIM Pro

	HKIE Core Competency	CIC Core Competency
6	<p>Commercial and Contractual Aspects:</p> <ul style="list-style-type: none">➤ Expertise in advising on the financial and commercial considerations of BIM, as well as BIM-related contractual matters.	<p>Commercial and Contractual Aspects:</p> <ul style="list-style-type: none">➤ Ability to describe commercial and financial issues of BIM as well as BIM-related contractual issues.
<p><u>Minimum achieved level:</u> Level 2 = Knowledge and understanding of the subject and its application</p>		

Core Competencies of Eng BIM Pro

	HKIE Core Competency	CIC Core Competency
7	Communication Skills: <ul style="list-style-type: none">➤ Ability to apply effective interpersonal and communication skills in a variety of public and interpersonal settings, such as presentations, meetings, report/training material writing, etc.	
	<u>Minimum achieved level:</u> Level 4 = Ability to perform the subject without supervision and advise others	

Core Competencies of Eng BIM Coord

	HKIE Core Competency	CIC Core Competency
1	Possess the knowledge and capabilities in their respective engineering disciplines, functioning as an Eng BIM Coordinator in projects to facilitate horizontal coordination of project information between parties and disciplines, as well as vertical coordination between professionals and BIM technicians, across various project stages.	--

Applicants for Eng BIM Coord are required to meet the core competencies set by both HKIE and CIC

Core Competencies of Eng BIM Coord

	HKIE Core Competency	CIC Core Competency
2	BIM Initiation: ➤ Ability to describe BIM concept definitions and scope, BIM standards and guidelines in Hong Kong and global contexts.	
	<u>Minimum achieved level:</u> Level 2 = Knowledge and understanding of the subject and its application	

Core Competencies of Eng BIM Coord

	HKIE Core Competency	CIC Core Competency
3	BIM Software and Technologies: ➤ Ability to operate BIM software and the modelling process, and describe current and relevant technologies.	
	<u>Minimum achieved level:</u> Level 3 = Ability to perform the subject independently or under supervision	

Core Competencies of Eng BIM Coord

	HKIE Core Competency	CIC Core Competency
4	<p>BIM Uses and Processes:</p> <ul style="list-style-type: none">➤ Ability to understand BIM uses, apply BIM software applications, and to execute and administer the responsible BIM tasks for individual or cross-disciplinary BIM project coordination.	
	<p><u>Minimum achieved level:</u> Level 3 = Ability to perform the subject independently or under supervision</p>	

Core Competencies of Eng BIM Coord

	HKIE Core Competency	CIC Core Competency
5	<p>Digital Information Management, Collaboration and Integration:</p> <ul style="list-style-type: none"> ➤ Competency in managing a Common Data Environment (CDE) solution and workflow in the day-to-day project information management process; and 	<p>Digital Information Management, Collaboration and Integration:</p> <ul style="list-style-type: none"> ➤ Ability to execute and administer the operation of a CDE and data quality control system for effective use and sharing of digital information in a BIM project.
<p><u>Minimum achieved level:</u> Level 3 = Ability to perform the subject independently or under supervision</p>		

Core Competencies of Eng BIM Coord

	HKIE Core Competency	CIC Core Competency
6	Communication Skills: ➤ Ability to apply interpersonal and communication skills in meetings, report/ training material writing, etc.	
	<u>Minimum achieved level:</u> Level 3 = Ability to perform the subject independently or under supervision	

Core Competencies of Eng BIM Coord

	HKIE Core Competency	CIC Core Competency
7	<p>BIM Information Exchange knowledge:</p> <ul style="list-style-type: none">➤ Ability to handle the exchange of BIM information between parties with an emphasis on quality	--

Streamlined procedure for assessment

- Applicants indicate if they wish to apply for CCBM/CCBC in the application form
- The application form will be copied to CIC for assessment
- Not required to pay an addition fee to CIC or undergo additional interview by CIC. During the 6-month trial run period, CIC will carry out audit check and interview assessment may be held if necessary
- CIC will notify applicant of the result directly

PLEASE NOTE:

- Renewal and appeal of CCBM/CCBC will be submitted to and processed by CIC separately

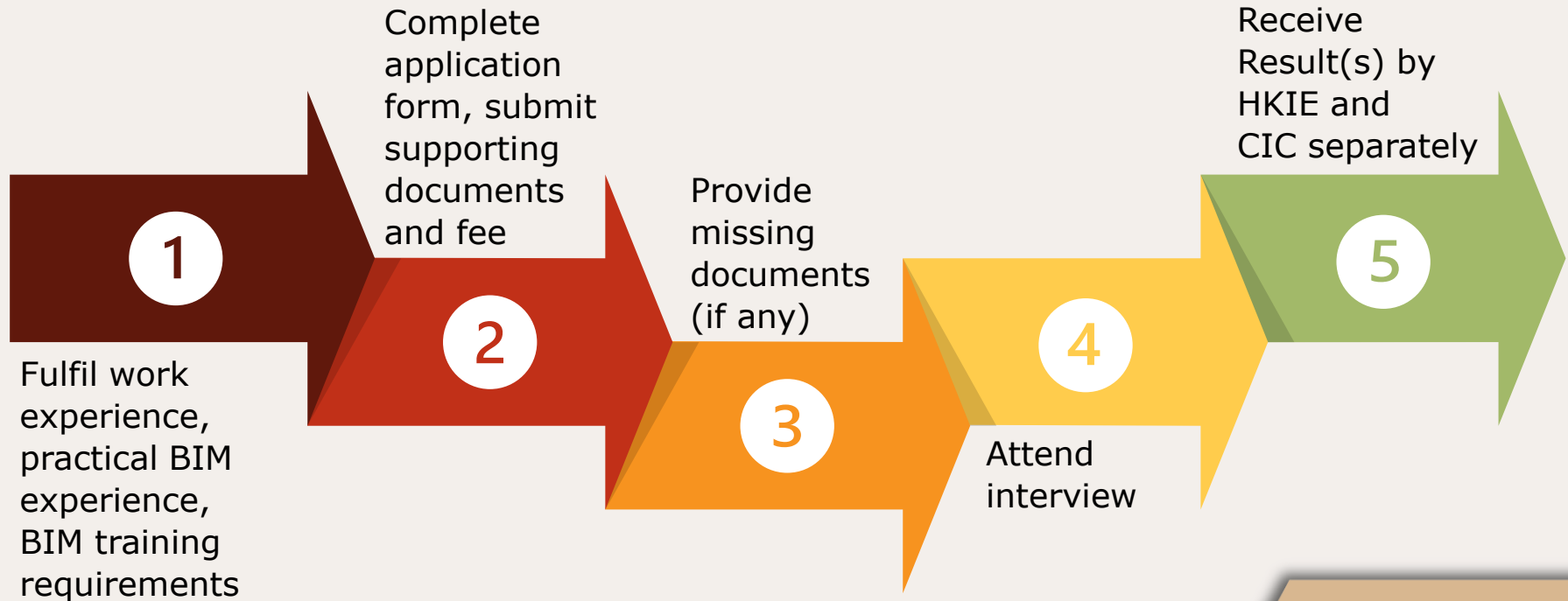
Criteria for Eng BIM Pro

- Fellow or Member of the HKIE
- Have no less than 2 years of BIM working experience in the past 5 years (including at least 6 months in HK)
- Completed “Certificate for Building Information Modelling Manager” (EG424129Q) offered by the VTC with content tailor-made for HKIE members

Criteria for Eng BIM Coord

- Fellow, Member or Associate Member of the HKIE
- Have 3 years of full-time work experience (with at least 6 months stationed in HK)
- Have no less than 1 year of BIM working experience in the past 5 years (including at least 6 months in HK) in feasibility and planning, design, project coordination & administration etc., plus operation of the BIM project CDE
- Completed “Building Information Modelling for BIM Coordinator” (CON4185X) offered by the VTC with content tailor-made for HKIE members
- Completed BIM software/ platform training course in operation level as recognised by CIC, OR possession of any certification of BIM software in operation level issued by respective software developers OR any equivalent as accepted by CIC.

Application procedures



Notes to applicants

01 Certification of BIM project experience

Each BIM project experience is to be certified by a FHKIE/ MHKIE in your employer organisation who has knowledge and understanding of your work

02 Competency statement

Applicant should write a competency statement on all core competencies of Eng BIM Pro/ Eng BIM Coord

- 1,500 – 2,500 words for Eng BIM Pro
- Less than 2,000 words for Eng BIM Coord



03 Fees

Application:

- HK\$1,000 for Eng BIM Pro
- HK\$500 for Eng BIM Coord

Renewal:

- HKIE: Free of charge
- CIC: HK\$500 for CCBM and HK\$250 for CCBC (valid until 31 Dec 2024)

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INSTITUTION OF ENGINEERS
香港工程師學會