CONSTRUCTION INDUSTRY COUNCIL
建造業議會

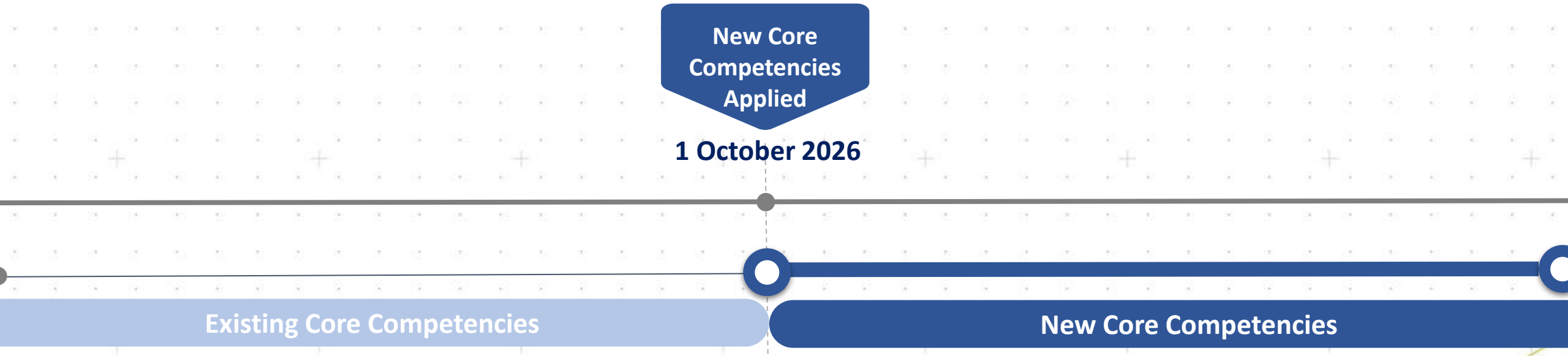
# Lazy Pack

## New Enhancements to Certification of BIM Managers & Accreditation of BIM Manager Courses 2026 onwards

# 1. Background

- To keep pace with industry needs, CIC regularly reviews the core competency requirements and core subjects under the BIM Certification and Accreditation Schemes (BIMCAS). The last enhancements were made in 2022.

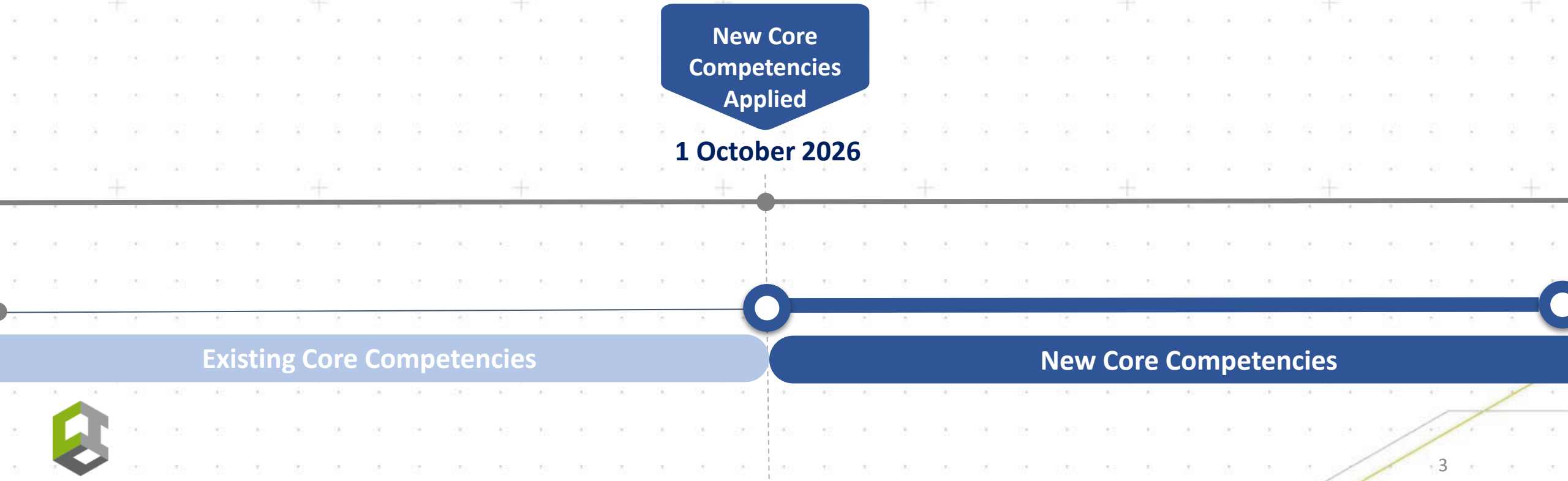
- The BIM Certification and Accreditation Schemes (BIMCAB) has approved the enhancements on 15 October 2025. These updates aim to maintain relevance and further strengthen the quality of BIM training and certification.



# 2. Timeline for New Enhancement to Certification

**Effective Date**

- 1 October 2026
- From this date onward, all certification **applications** must comply and be assessed with the enhanced requirements.



# 3. Enhancement to CCBM Core Competencies

- The wordings of the Core Competencies of a BIM Manager are **refined** to more accurately reflect the essential competencies that a BIM Manager should possess.

| Existing Version | New Version (with effect from 1 October 2026) |
|---|---|
| **1. BIM Initiation [Level 2]**<br>(Ability to describe BIM concept definitions and scope, BIM standards and guidelines in the Hong Kong and global contexts.) | **1. BIM Initiation [Level 2]**<br>(Ability to describe BIM concepts, definitions and scopes, BIM standards and guidelines in the Hong Kong and global contexts.) |
| **2. BIM Software and Technologies [Level 2]**<br>(Ability to explain BIM software and the modelling process, and current and upcoming technologies.) | **2. BIM Software and Technologies [Level 2]**<br>(Ability to describe BIM software/platforms and their modelling and digital information development processes, and various technologies associated with BIM.) |
| **3. BIM Uses and Processes [Level 4]**<br>(Ability to understand BIM uses and BIM software applications, and to design and manage the overall process of a BIM project.) | **3. BIM Uses and Processes [Level 4]**<br>(Ability to explain BIM uses, processes and BIM software/platform utilisation, and to design and manage end-to-end BIM project workflows.) |
| **4. Digital Information Management, Collaboration and Integration [Level 4]**<br>(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.) | **4. Digital Information Management, Collaboration and Integration [Level 4]**<br>(Ability to plan, establish and manage Common Data Environment and data quality control systems for effective digital information management, exchange and utilisation in BIM projects.) |
| **5. Commercial and Contractual Aspects [Level 2]**<br>(Ability to describe commercial and financial issues of BIM as well as BIM-related contractual issues.) | **5. Commercial and Contractual Aspects [Level 4]**<br>(Ability to explain commercial and financial considerations, and comply with contractual issues related to BIM implementation.) |
| **6. Communication Skills [Level 4]**<br>(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.) | **6. Communication Skills [Level 4]**<br>(Ability to apply effective interpersonal and communication skills in diverse professional settings, including presentations, meetings, reporting, training material development, etc.) |
| **7. Leadership, Management and Integrity Aspects**<br>(Ability to represent the CIC and uphold a high standard of professionalism, integrity and ethical behavior.) | **7. Leadership, Management and Integrity Aspects**<br>(Ability to lead and manage subordinates for BIM implementation with professionalism, integrity and ethical behaviour upholding a high CIC standard.) |

# 3. List of Detailed Core Competencies (New)

- The purpose of this new list is to more accurately reflect the essential competencies a BIM Manager should possess, and better align with the latest CIC BIM Standards and emerging technology trends. **(New items highlighted in green)**

| | Detailed Core Competencies | Level of Competency |
|---|---|---|
| 1. BIM Initiation | *1.1. – BIM Concept* | |
| | 1.1.1 BIM definitions and terminology | L2 |
| | 1.1.2 Difference between CAD (2D/3D) and BIM | L2 |
| | 1.1.3 BIM in the context of whole life cycle of a built asset and smart city | L2 |
| | 1.1.4 Value and benefits of adopting BIM in the whole life cycle of a built asset | L2 |
| | 1.1.5 Collaborative working in BIM | L2 |
| | 1.1.6 Limitation of BIM | L2 |
| | 1.1.7 How BIM can affect the AECO practice and address the current challenges | L2 |
| | | |
| | *1.2. – Local, Mainland & Global BIM development and standards* | |
| | 1.2.1 Local BIM standards, publications and available resources | L2 |
| | 1.2.1.1 CIC BIM standards and other related publications and resources | L2 |
| | 1.2.1.2 Government BIM & BIM-AM related technical circulars, standards, guidelines and publications | L2 |
| | 1.2.2 BIM development in Mainland and global context | L1 |
| | 1.2.3 Mainland and international BIM standards, publications and initiatives | L2 |
| | 1.2.3.1 Mainland BIM standards GB/T series | L1 |
| | 1.2.3.2 ISO 19650 series | L2 |
| | 1.2.3.3 openBIM and other collaborative formats | L2 |

# 3. List of Detailed Core Competencies (New) (Cont'd)

| | Detailed Core Competencies | | Level of Competency |
|---|---|---|---|
| 2. BIM Software and Technologies | *2.1. – BIM Software and Platforms* | | |
| | 2.1.1 | Common BIM software and platforms for various trades | L2 |
| | 2.1.2 | Key characteristics, file format & version, strength and limitation of common BIM software and platforms | L2 |
| | 2.1.3 | Interoperability across common BIM software and platforms | L2 |
| | *2.2. – Technologies and Construction Related Applications* | | |
| | 2.2.1 | Internet & cloud | L1 |
| | 2.2.2 | Laser scanning & photogrammetry | L2 |
| | 2.2.3 | Unmanned Aircraft System (UAS) / Drone | L2 |
| | 2.2.4 | Geographic Information System (GIS) | L2 |
| | 2.2.5 | Common Spatial Data Infrastructure (CSDI), 3D Digital Map and 3D Photo-realistic Model by the HKSAR | L1 |
| | 2.2.6 | Internet of Things (IoT), Radio Frequency Identification (RFID), mobile or smart devices | L2 |
| | 2.2.7 | Virtual reality (VR), Augmented Reality (AR) and Mixed Reality (MR) | L2 |
| | 2.2.8 | Digital Twin | L2 |
| | 2.2.9 | Robotics | L1 |
| | 2.2.10 | Programming, automation and API | L1 |
| | 2.2.11 | MiC, MiMEP and DfMA | L2 |
| | 2.2.12 | Indoor positioning | L1 |
| | 2.2.13 | Artificial Intelligence (AI), Machine Learning and Large Language Model (LLM) | L1 |
| | 2.2.14 | Smart Site Safety System (4S) and Digital Works Supervision System (DWSS) | L1 |

# 3. List of Detailed Core Competencies (New) (Cont'd)

| | Detailed Core Competencies | | Level of Competency |
|---|---|---|---|
| 3. BIM Uses and Processes | *3.1. – BIM Organisational Strategy and Requirements* | | |
| | 3.1.1 | Overview of BIM strategy, uses and organisation | L2 |
| | 3.1.2 | Key personnel in relation to BIM and their roles and responsibilities | L2 |
| | 3.1.3 | Establish and lead the development of the BIM Requirements at the organisational level | L4 |
| | | 3.1.3.1 Organisational Information Requirements (OIR) | |
| | | 3.1.3.2 Asset Information Requirements (AIR) | |
| | | 3.1.3.3 Security Information Requirements (SIR) | |
| | 3.1.4 | Develop and lead the implementation of the CDE strategy at the organisational level | L4 |
| | 3.1.5 | Establish and manage the strategies for integrating BIM with broader construction digitalisation technologies at the organisational level (e.g. GIS, Digital Twin, 4S, etc) | L4 |
| | 3.1.6 | Case study | L2 |
| | | | |
| | *3.2. – Project Planning Stage* | | |
| | 3.2.1 | Define and establish the Appointing Party BIM Requirements and the Project Information Requirements (PIR) at the project level | L4 |
| | 3.2.2 | Develop and manage the Exchange Information Requirements (EIR) | L4 |
| | 3.2.3 | Determine and lead the integration of technologies and system requirements at the project level (e.g. BIM software, platforms, CDE, etc.) | L4 |
| | 3.2.4 | Develop and oversee project delivery requirements and appropriate BIM Uses at the project level | L4 |
| | 3.2.5 | Develop and manage the Level of Information Need (LOIN) to be adopted at the project level | L4 |
| | 3.2.6 | Establish and manage the BIM & information standards, methods and procedures at the project level | L4 |
| | 3.2.7 | Coordinate and manage the shared resources with the Lead Consultant / Lead Contractor at the project level | L4 |

# 3. List of Detailed Core Competencies (New) (Cont'd)

| | | |
|---|---|---|
| 3.2.8 | Assess and validate the capability and capacity of the delivery team | L4 |
| 3.2.9 | Case study | L2 |
| | | |
| *3.3. – Project Design Stage* | | |
| 3.3.1 | Develop and lead the Pre-appointment and Post-appointment BIM Implementation Plan (BIM IP) | L4 |
| 3.3.2 | Develop and lead the Pre-appointment and Post-appointment BIM Execution Plan (BEP) | L4 |
| 3.3.3 | Define and manage the Information Management Assignment Matrix | L4 |
| 3.3.4 | Establish and manage the detailed modelling methodology and requirements | L4 |
| 3.3.5 | Manage the production and delivery of the BIM Uses in the planning and design stages | L4 |
| 3.3.6 | Lead and report in BIM-related meetings and documentations | L4 |
| 3.3.7 | Case Study | L2 |
| | | |
| *3.4. – Project Construction & Handover Stage* | | |
| 3.4.1 | Develop and lead the Pre-appointment and Post-appointment BIM Implementation Plan (BIM IP) | L4 |
| 3.4.2 | Develop and lead the Pre-appointment and Post-appointment BIM Execution Plan (BEP) | L4 |
| 3.4.3 | Define and manage the Information Management Assignment Matrix | L4 |
| 3.4.4 | Establish and manage the detailed modelling methodology and requirements | L4 |
| 3.4.5 | Manage the production and delivery of the BIM Uses in the construction and handover stages | L4 |
| 3.4.6 | Lead and report in BIM-related meetings and documentations | L4 |
| 3.4.7 | Case Study | L2 |
| *3.5. – Building/Asset Operation & Maintenance Stage* | | |
| 3.5.1 | Technologies for BIM asset management and integration with the building / asset management system | L2 |
| 3.5.2 | Manage the production and delivery of the Asset Information Model (AIM) and associated data for operation and maintenance (O&M) stage | L4 |
| 3.5.3 | Manage the information exchange from the AIM to the building / asset management system | L4 |
| 3.5.4 | Maintain and update the Asset Information Model (AIM) throughout the O&M stage | L4 |
| 3.5.5 | Lead and coordinate BIM-based asset management with asset management, facility management, and operation teams | L4 |
| 3.5.6 | Case Study | L2 |

# 3. List of Detailed Core Competencies (New) (Cont'd)

| | Detailed Core Competencies | | Level of Competency |
|---|---|---|---|
| 4. Digital Information Management, Collaboration and Integration | *4.1. – Digital Information Management* | | |
| | 4.1.1 | Plan and manage the information management workflow for various work stages | L4 |
| | 4.1.2 | Plan and manage the BIM information and model exchange for multi-disciplinary collaboration | L4 |
| | 4.1.3 | Define and manage the details of the Level of Information Need (LOIN) in terms of graphical, non-graphical, and documentation requirements for various work stages | L4 |
| | 4.1.4 | Plan and manage the integration, archiving, and handover of BIM model and associated data across the work stages | L4 |
| | 4.1.5 | Establish and maintain various BIM related coding systems and classifications for various work stages | L4 |
| | 4.1.6 | Plan and manage the process of information exchange across various open / proprietary file formats (e.g. BCF, IFC, IDM, bsDD, COBie, MVD, IDS, etc.) | L4 |
| | | | |
| | *4.2. – Common Data Environment (CDE)* | | |
| | 4.2.1 | CDE and the workflow as per ISO 19650 | L2 |
| | 4.2.2 | Common CDE solutions in the market | L2 |
| | 4.2.3 | Establish and manage a CDE | L4 |
| | 4.2.4 | Assess and select an appropriate CDE based on project requirements | L4 |
| | 4.2.5 | Lead and manage the information exchange process of CDE | L4 |
| | 4.2.6 | Limitation of CDE | L2 |
| | | | |
| | *4.3 – Data Quality Assurance & Audit across various work stages* | | |
| | 4.3.1 | Plan and develop the BIM quality assurance and audit processes, methodologies and checking systems for various work stages | L4 |
| | 4.3.2 | Manage the production of BIM quality assurance, auditand model checking for various work stages | L4 |
| | 4.3.3 | Define and oversee the production of BIM quality assurance and audit reporting for various work stages | L4 |

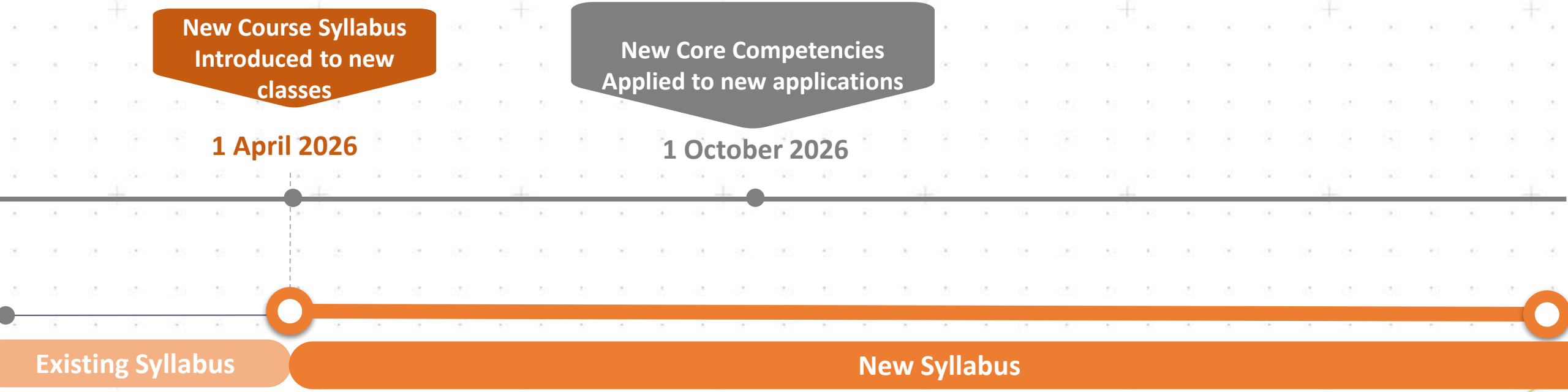
# 3. List of Detailed Core Competencies (New) (Cont'd)

| | Detailed Core Competencies | | Level of Competency |
|---|---|---|---|
| 5. Commercial and Contract | *5.1. – Commercial Issues* | | |
| | 5.1.1 | Foster BIM literacy across organisation and stakeholders | L4 |
| | 5.1.2 | Define and manage the requirements of hardware, software and IT infrastructure for BIM | L4 |
| | 5.1.3 | Lead the human resource management, competency and training for BIM | L4 |
| | 5.1.4 | Lead the procurement and supply chain management for BIM | L4 |
| | 5.1.5 | Establish and oversee risk management strategies for BIM implementation. | L4 |
| | | | |
| | *5.2. – Contractual and Liabilities Issues* | | |
| | 5.2.1 | Understand the potential risks associated with model sharing, data accuracy and reliance on digital deliverables | L2 |
| | 5.2.2 | Describe the contractual provisions related to BIM, such as roles and responsibilities, ownership of models, intellectual property rights, and protocols for data exchange etc. | L2 |
| | 5.2.3 | Understand how BEPs, information requirements and standards integrate with contractual frameworks to define deliverables and the rights and liabilities of the parties involved | L2 |

# 4. Timeline for New Enhancement to Accreditation

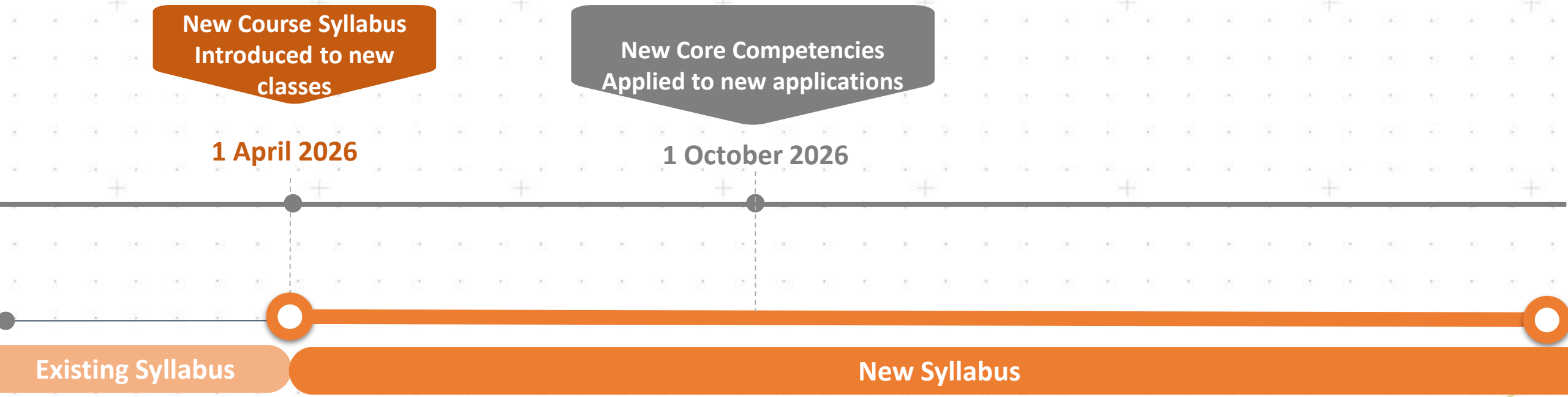
**Effective Date**

- 1 April 2026
- From this date onward, all new **classes** of the accredited courses should adopt the enhanced syllabus.



# 4. Timeline for New Enhancement to Accreditation (Cont'd)

- **CCBM/CCBC completion certificates issued under the existing syllabus will remain valid after 1 October 2025, unless otherwise specified by CIC.**
- Anyone holds a completion certificate of the accredited CCBM/CCBC course with valid accreditation period (no matter it was taught under new/old syllabus) is considered having **fulfilled the BIM education requirement** when applying for CCBM/CCBC certification, unless otherwise specified by CIC..



# 5. Enhancement to CCBM Course Syllabus

| | Syllabus | Lecture Hours | Workshop Hours | Total Contact Hours | Exam Hours |
|---|---|---|---|---|---|
| **BIM Manager Courses** | Update on specific terminologies and detailed core subject items | 26.5 to 19 hrs | 9.5 to 17 hrs | **Unchanged** | Unchanged |
| **BIM Manager Courses (Top-up)** | | 13.5 to 13 hrs | 5.5 to 5 hrs | **19 to 18 hrs** | Unchanged |

For a detailed syllabus of CCBM course, please refer to https://www.bim.cic.hk/Upload/page/111/file_1/7f0fec4daafc4ee4be1df663579d2063.pdf

# 6. Enhancement to CCBM List of Core Subjects (Extract)

(New items highlighted in green)

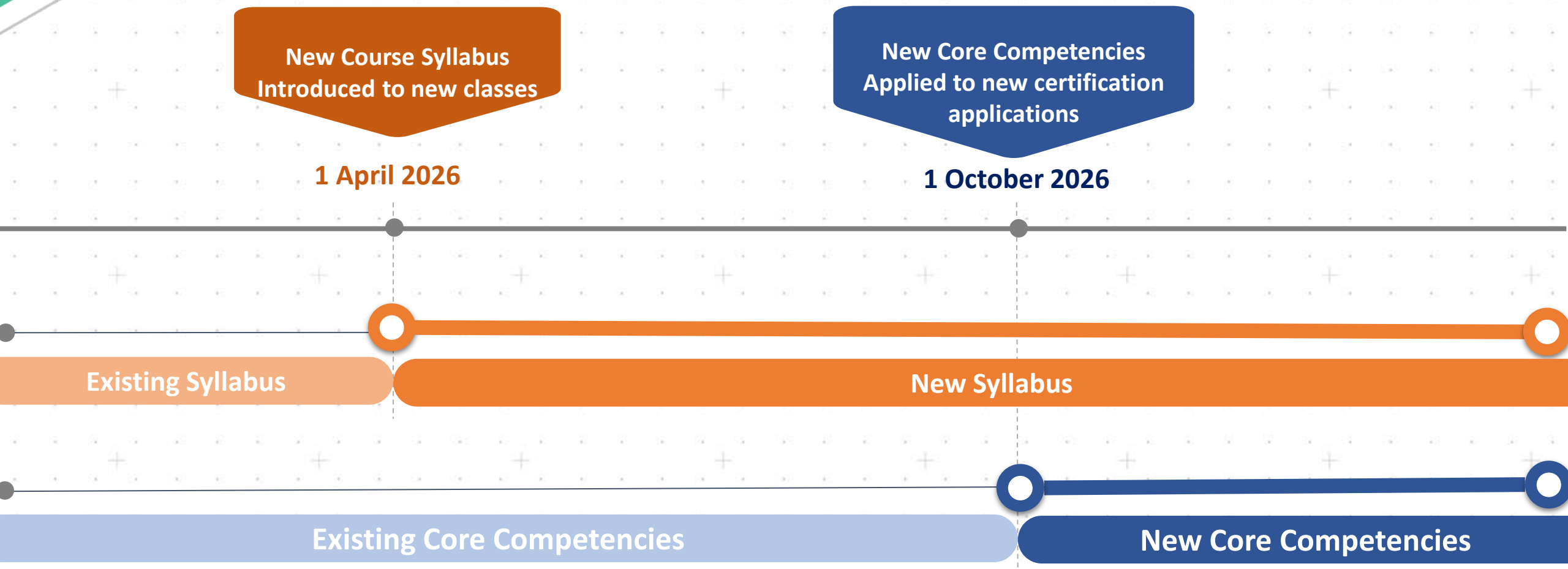
| - | Core Subject | Level of Competency (for ref.) | Minimum curriculum hours | | Assessment | | |
|---|---|---|---|---|---|---|---|
| | | | Lecture | Workshop | Assignment | Description | Examination |
| 1. BIM Initiation | *1.1. – BIM Concept* | | 1 | 0 | 1 | Assignments can be in quiz, worksheet…etc. It can be arranged so that it won't occupy any curriculum hour. | Can be only one examination for the whole course |
| | 1.1.1 BIM definitions and terminology | L2 | | | | | |
| | 1.1.2 Difference between CAD (2D/3D) and BIM | L2 | | | | | |
| | 1.1.3 BIM in the context of whole life cycle of a built asset and smart city | L2 | | | | | |
| | 1.1.4 Value and benefits of adopting BIM in the whole life cycle of a built asset | L2 | | | | | |
| | 1.1.5 Collaborative working in BIM | L2 | | | | | |
| | 1.1.6 Limitation of BIM | L2 | | | | | |
| | 1.1.7 How BIM can affect the AECO practice and address the current challenges | L2 | | | | | |
| | | | | | | | |
| | *1.2. – Local, Mainland & Global BIM development and standards* | | 2 | 0 | | | |
| | 1.2.1 Local BIM standards, publications and available resources | L2 | | | | | |
| | 1.2.1.1 CIC BIM standards and other related publications and resources | L2 | | | | | |
| | 1.2.1.2 Government BIM & BIM-AM related technical circulars, standards, guidelines and publications | L2 | | | | | |
| | 1.2.2 BIM development in Mainland and global context | L1 | | | | | |
| | 1.2.3 Mainland and international BIM standards publications and initiatives | L2 | | | | | |
| | 1.2.3.1 Mainland BIM standards GB/T series | L1 | | | | | |
| | 1.2.3.2 ISO 19650 series | L2 | | | | | |
| | 1.2.3.3 openBIM and other collaborative formats | L2 | | | | | |
| | | | 3 | 0 | 1 | | |

# 6. Enhancement to CCBM List of Core Subjects (Extract)

(New items highlighted in green)

| - | Core Subject | | Level of Competency (for ref.) | Minimum curriculum hours | | Assessment | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Lecture | Workshop | Assignment | Description | Examination |
| 2. BIM Software and Technologies | *2.1. – BIM Software and Platforms* | | | 1 | 0 | 1 | Participants are suggested to spend their own time on getting know the BIM software. E.g. Homepage of BIM software | Can be only one examination for the whole course |
| | 2.1.1 | Common BIM software and platforms for various trades | L2 | | | | | |
| | 2.1.2 | Key characteristics, file format & version, strength and limitation of common BIM software and platforms | L2 | | | | | |
| | 2.1.3 | Interoperability across common BIM software and platforms | L2 | | | | | |
| | *2.2. – Technologies and Construction Related Applications* | | | 2 | 0 | | Participants are suggested to spend their own time on getting know various technologies related to BIM. | |
| | 2.2.1 | Internet & cloud | L1 | | | | | |
| | 2.2.2 | Laser scanning & photogrammetry | L2 | | | | | |
| | 2.2.3 | Unmanned Aircraft System (UAS) / Drone | L2 | | | | | |
| | 2.2.4 | Geographic Information System (GIS) | L2 | | | | | |
| | 2.2.5 | Common Spatial Data Infrastructure (CSDI), 3D Digital Map and 3D Photo-realistic Model by the HKSAR | L1 | | | | | |
| | 2.2.6 | Internet of Things (IoT), Radio Frequency Identification (RFID), mobile or smart devices | L2 | | | | | |
| | 2.2.7 | Virtual reality (VR), Augmented Reality (AR) and Mixed Reality (MR) | L2 | | | | Assignments can be in quiz, worksheet…etc. It can be arranged so that it won't occupy any curriculum hour. | |
| | 2.2.8 | Digital Twin | L2 | | | | | |
| | 2.2.9 | Robotics | L1 | | | | | |
| | 2.2.10 | Programming, automation and API | L1 | | | | | |
| | 2.2.11 | MiC, MiMEP and DfMA | L2 | | | | | |
| | 2.2.12 | Indoor positioning | L1 | | | | | |
| | 2.2.13 | Artificial Intelligence (AI), Machine Learning and Large Language Model (LLM) | L1 | | | | | |
| | 2.2.14 | Smart Site Safety System (4S) and Digital Works Supervision System (DWSS) | L1 | | | | | |
| | | | | 3 | 0 | 1 | | |

# 7. Timeline for New Enhancements to BIMCAS

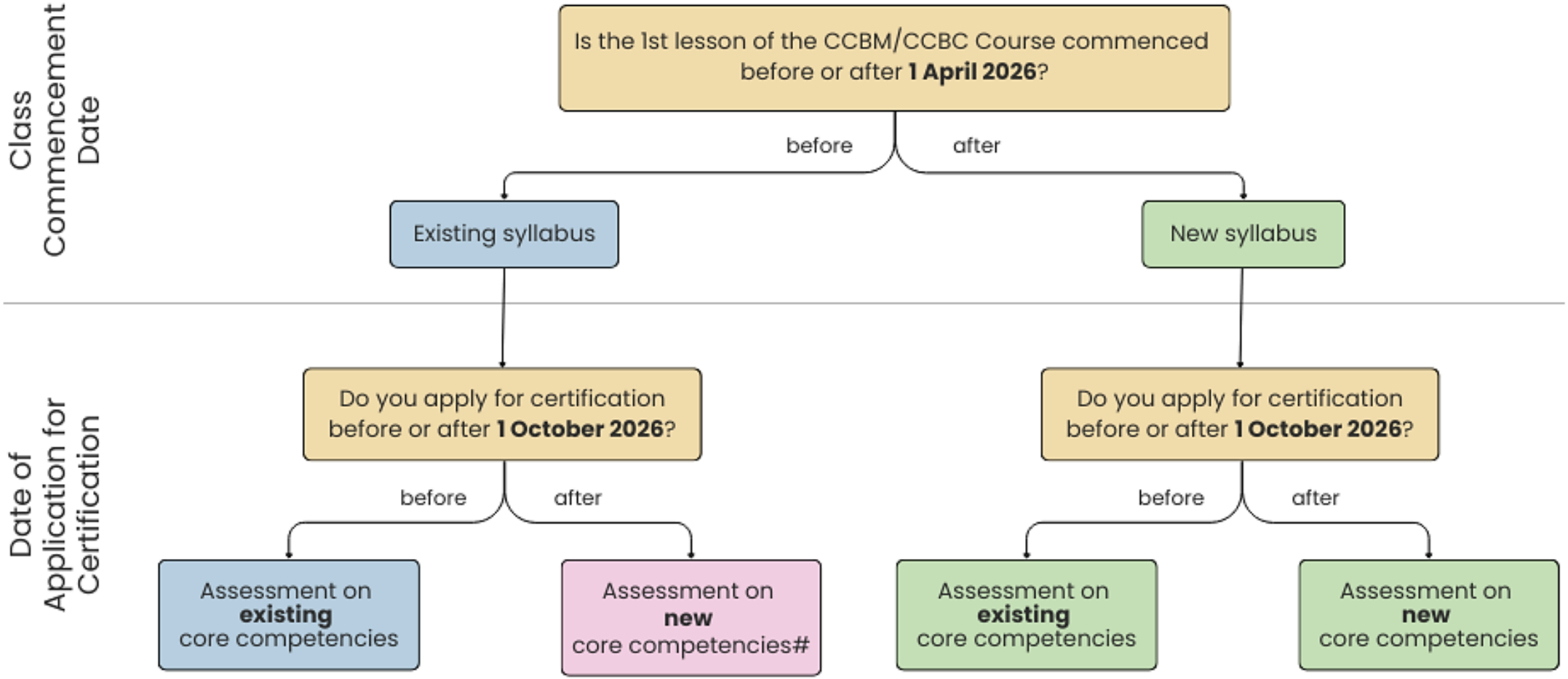



- **CCBM/CCBC completion certificates issued under the existing syllabus will remain valid after 1 October 2025, unless otherwise specified by CIC.**

IMPORTANT

# Identify Your Certification Assessment Path

*Based on Class Commencement Date and Application Date*



# Apply Now and Scan to Know More!

| | | | | |
|---|---|---|---|---|
| Application Guide for Certification of CCBM | Application Guide for Accreditation of BIM Manager Courses | List of CIC-Accredited BIM Manager Courses | Useful Forms and Templates | Lazy Pack on Enhancement 2026 |