

Part B Application

Undergraduate Programmes

1. For teaching institutions seeking accreditation of an undergraduate programme

- 2. For teaching institutions with valid Accredited Centre Status now wishing to submit an additional programme
- 3. A separate Part B form is required for each degree programme being put forward for accreditation

Section A: Contact & programme details



2: Details of programme

Programme titles to be considered under this application:				
	(t	his title	will appear on the accredita	tion certificate)
Delivery mode (full time/part time/ sand distance/DA/ or other i.e. accelerated):	wich/			
Please indicate if your teaching instituti is self-validating:	ion		Self-validating	Not self-validating
If not self-validating please provide the n of the validating/awarding body:	ame			
Is this a first submission? Yes		No		
If no, please indicate the date of the previous submission:	DD	MM	YYYY	
First cohort completion date:	DD	MM	YYYY	

3: Collaborative programmes

To be completed by self-validating institutions only.

Is this programme a franchised programme?

Are you seeking accreditation for these providers? If yes, you must complete a Part C Form.

Please indicate the name of the institution, contact name and postal address of all institutions to be accredited (on a separate document if necessary). Correspondence will only be sent to the main contact named in section 1.

Yes	No		
Yes	No		

Section B: Staff information

1. Please provide th	e follo	wing deta	ails of all the	staff involved	on the	e prog	ramme	. (CVs are als	o required).
Name	Designation - Prof, Dr, Mr, Ms etc.	Highest Academic Qualification - PhD, MSc/ MBA/ MEng, BEng/ BSc/ BA, PGDip/ PGCert, etc.	Professional Body membership and class i.e. MCIOB, FRICS, FRIBA, RIBA etc. and dates held	Class of membership of HEA , i.e. FHEA, SFHEA etc. and dates held	Number of years industrial experience (FTE)	Number of years working in education	Employment by Institution - FT or PT and if PT state fraction. i.e. 0.6 PT	Module Leadership on each of the proposed awards - please state title of modules	Module delivery - proportion of delivery hours - as % of total delivery hours on module
EXAMPLE John Smith	Prof	PhD	MCIOB 1992-present	FHEA 1998-present	20	5	FT	Programme Leader for Construction Management. Module leader for Construction Technology 2	Con Tech 1 = 40% Professional Ethics = 20% Surveying = 10%

Section C: Programme structure

1. Provide details on the range, subject disposition and focus of the programme. This should describe the focus, strengths and weaknesses, and the opportunities for future development. (500 words)

2. The allocation of academic credit in full-time mode (if applicable).

Year	Year 1	Year 2	Year 3	Year 4	Year 5
Credits at FHEQ L4					
Credits at FHEQ L5					
Credits at FHEQ L6					

B. The allocation of academic credit in part-time mode (if applicable).

Year	Year 1	Year 2	Year 3	Year 4	Year 5
Credits at FHEQ L4					
Credits at FHEQ L5					
Credits at FHEQ L6					

C. The allocation of academic credit in accelerated mode (PT/FT) (if applicable).

Year	Year 1	Year 2	Year 3
Credits at FHEQ L4			
Credits at FHEQ L5			
Credits at FHEQ L6			

D. Modular programmes - Indicate study hours and credits per module.

	Hours	Credits		
Standardised modules				
	Hours	Credits	Hours	Credits

E. Enter compulsory/optional elements of the programme below.

	Number of compulsory modules	Number of optional modules	Credits required for Honours degree pass
Year 1			
Year 2			
Year 3			
Year 4			
Year 5			

3. Summarise the detailed content of the compulsory modules of the programme (500 words).

Section D: Programme aims, objectives and vocational relevance

1. Please provide d	etails of ind	dustrial pla	acement					
Select placement type:	Volunt	ary	Compulsory		No Placement			
Minimum placement per	riod (in weeks)							
B. Indicate placement du	ration below i	in weeks or r	nonths (if app	licable).				
B. Indicate placement du	ration below i Year 1	in weeks or r Year 2	nonths (if app Year 3	licable). Year 4	Year 5	Post		
B. Indicate placement du Option 1					Year 5	Post		
					Year 5	Post		

2. Describe the management of the industrial placement and how students are mentored, monitored and supported through the placement period. (500 words)

3. Comment on the development of vocational and transferable skills within the programme. (250 words) 4. List (if relevant) which modules on the programme are shared with other programmes and which are unique to programme.

5. State the expected learning outcomes of the programme (250 words)

6. Explain how the themes shown in the Education Framework, contribute to the programme aims and objectives (500 words)

7. Explain how the programme contributes to other programmes in the faculty (250 words)

8. Briefly describe how your institution ensures programmes are kept current and of a high quality (500 words)

9. Briefly describe how you are encouraging students to call out bad practice and to challenge the adversarial culture within the Industry? (500 words).

Section E: Student progression

1. Progression & Recruitment Trends							
Programme Type	Duration in Years	Number of Students Enrolled per Cohort					
	Minimum	Maximum	Year 1	Year 2	Year 3	Year 4	Year 5
Full Time							
Sandwich							
Part Time							
Distance							
Accelerated							
Degree Apprenticeship							
Other							
Pass Rate %							

B. Graduate Destinations (%) – Data for past three years (full time) 5 years (part time)

Year			
1. Student attrition rates			
2. Student progression statistics			
3. In employment			
4. Not in employment			
5. Progression to higher education			

2. Use the space below to give a brief explanation of any anomalies in the data provided above. (250 words)

3. Briefly outline how the Department monitors student progression. (250 words)

4. Summarise the ability for students to transfer between programmes in the faculty. (250 words)

5. For sub-degree programmes (HNC/HND, Foundation degrees) please indicate if top-up to BSc are available.

6. If yes, please outline facilities for supporting students in progression to top-up programmes (250 words).

Section F Assessment and feedback

1A. Please provide the assessment regulations for the programmes

1B. Give an approximate percentage rating of the assessment methods used below

Year	Unseen examination/test (%)	Continuous assessment/ course work (%)	Work-based assessment (%)
Year 1			
Year 2			
Year 3			
Year 4			
Year 5			

2. Describe the assessment mechanisms and describe how they relate to the aims, objectives and learning outcomes of the programme. (500 words)

3. Explain the processes and procedures for providing feedback on student work as well as on the students' progress and overall performance. (500 words)

Section G Additional information for accelerated programmes only

1. Academic support - how is the annual leave of academics delivering modules managed? (250 words) 2. Access to personal tutors and pastoral support – during July and August what pastoral support is available to the students? (250 words)

3. Access to the main library and any specialised/dedicated rooms/labs including IT rooms – Describe the opening times and the availability of support related to them across July and August? (250 words)

4. Explain what changes have been made to assessment regulations/ compensation/ progression/ resit opportunities and the timing of submissions? (250 words)

5. Please provide details with regards to any articulation or progression agreements for advanced entry into the programme being considered. (250 words)

Section H Additional information for top-up programmes only

1. Outline the range of delivery modes available (250 words)

2. Indicate if the programme is designed for articulation to BSc Honours from a single source, such as a Foundation degree. (250 words)

3.	Describe the	profile or rai	nge of p	orofiles of	entrants to the	programme.	(250 words)

4. Outline any facilities/complementary courses for ensuring smooth transition to the programme for candidates from different entry points. (500 words).

5. Indicate if there	e is a minimun	n credit requirement fo	r entry to the	programme
			J	

6. Enter the pre-top-up credits required for entry to the programme if applicable

Level 4:

Level 5:

Section I Application mapping to CIOB Undergraduate Education Framework

 Provide a brief commentary on the mapping process to include issues 	s or rationales in	
support of the application. (500 words)		

2. Please sign and date the form below and tick off the appendices provided

Sign	ature:					
Print	t name:		Date:	DD	MM	YYYY
B. Please indicate if you would like details of your accreditation announced in Contact Magazine (for UK teaching institutions) or Icon Magazine (for international teaching institutions)						
	Please	publish details of our accredited programme in the	appropria	te CIO	B maga	azine
	Please	do not publish details of our accredited programme	e in the ap	propria	ate CIO	B magazine

C. Please tick if the appendices listed below are attached to the application

CHECKLIST OF APPENDICES

Programme Specification Document

Module Descriptors

Student Handbook

Staff CVs

External Examiner Reports (3 years)

Ofsted Report (if applicable)

Section I continued application mapping to CIOB Undergraduate Education Framework

Please provide a detailed comparison to the respective levels of the CIOB Undergraduate Education Framework. The CIOB does not prescribe how the themes are to be incorporated into the programme and there is not a requirement to meet all of the outcomes of the framework in order to achieve accreditation, although it is expected that core modules meet all the threshold outcomes at level 4 and 5 which are highlighted by being highlighted blue.

2.1 Construction Management

Learning outcome	Cross reference to programme module (Module code + title)	Method of assessment	Further comments
P	ROCESS MANAGEMEN	т	
L4 Understand the management of construction processes as they relate to the project from inception to end of life/use.			
Understanding corporate organisations, industry, clients and society.			
L5 Apply knowledge of the construction, maintenance, and adaptation process to the management of projects and the selection of procurement methodology.			
L6 Analyse and solve problems relating to the construction process.			
НИМА	N RESOURCE MANAGE	MENT	
L4 Understand the role and responsibilities of people involved in the construction process.			

L5 Explain how human resource/people management methods affect the construction process. For example: • Employee Relations Frameworks • Recruitment and selection of personnel • Time management • Considerate Constructors • People, motivation and behaviour • Performance management and appraisal • Teams and integrated teams • Leadership and leadership styles • Inclusion and equality • Training and development			
L6 Evaluate Organisational HRM policies to ensure fair treatment of all personnel.			
Evaluate different leadership styles at: • Project level • Organisational level • National level			
Review HRM approaches to ensure effective harmonious working environments.			
CON	ISTRUCTION PSYCHOL	DGY	
L4 Appreciate the importance of understanding the person.			
Understand how the construction process impacts on individual welfare, wellbeing and inclusion.			
L5 Apply person understanding to the development of a variety of processes, including: • Stress management • Negotiation • Individual and team conflict resolution			
L6 Evaluate the application of individual person understanding to change management in construction organisations.			
PLANNING	AND SCHEDULING OF I	PROJECTS	
L4 Understand the importance of time, cost and resource management to complete projects effectively.			
Be aware of external benchmarks such as CIOB Good Practice in Management of Time in Major Projects: Dynamic Time Modeling, 2nd Edition			
Demonstrate awareness of the importance of digital technology in resource planning and scheduling.			
L5 Demonstrate the ability to use a range of digital planning tools, to apply them to construction processes including: • Project planning • Critical path analysis • Resource levelling			

 L6 Evaluate and apply different project management techniques to complex projects: Progress and completion Management and decision processes Project Evaluation and Review Technique (PERT) Risk analysis Digital information management technologies, for example BIM, blockchain technologies etc 			
PROCES	S PERFORMANCE MAN	AGEMENT	
L4 Demonstrate knowledge on the importance of performance management for process improvement, including definition and use of key performance indicators (KPIs) and benchmarking various techniques for measuring performance			
L5 Apply Key Performance Indicators (KPIs) to a construction project.			
L6 Evaluate and apply different performance management techniques to complex projects. For example: • procurement and contract performance • process improvement • incentivisation • best practices and feedback and reflection • business and market development, product development and research/innovation management			

2.2 Ethics and Professionalism

Learning outcome	Cross reference to programme module (Module code + title)	Method of assessment	Further comments
	ROLES AND CONDUCT		
 L4 Appreciate the role of the Construction Manager in an international context, including: management, development, conservation and improvement of the built environment role of the professional manager in construction Demonstrate an understanding of professional Codes of Conduct and ethics, i.e. <u>https://www.ciob.org/industry/policy- positions</u> Identify unethical behaviours, poor practice and appropriate methods of reporting, and adhering to CIOB's Ethical Standards CIOB Explore their moral compass to uphold standards of the CIOB Understand the CIC Essential Principles for achieving an accessible and inclusive environment. <u>https://www.cic.org.uk/ projects/essential-principles-guide</u> 			

L5 Discuss the issues relating to the application of ethical behaviour and Codes of Conduct.		
Discuss issues around conflicts of interests and relevant corruption and bribery acts.		
Apply CIC Essential Principles for achieving an accessible and inclusive environment. <u>https://www.cic.org.uk/projects/essential-</u> <u>principles-guide</u>		
Understand the methods used to provide online security of personal and project-specific information.		
Understand the application of intellectual property rights to a built asset.		
L6 Recommend improvements to practice to further enhance the image and efficiency of the construction industry.		
Recommend ethical and professional advice as required by a Chartered Builder and Construction Manager.		
EQUALITY, DIVERSITY, DISABILITY, C	AGE, GENDER, SEXUAL ULTURE AND BEHAVIO	E, ETHNICITY:
L4 Demonstrate an awareness of the meaning and relevance of the nine 'Protected characteristics' defined in the UK Equality Act 2010. These include age, disability, gender reassignment, marriage and civil parternship, pregnancy and maternity, race, religion and belief, sex and sexual orientation.		
 L5 Give examples and prepare plans for the application of ethical and inclusive practice in the built environment workplace, demonstrating consideration of people as clients, customers and consumers of built environment 'products' and services 		
• Discuss and analyse an organisation's strategic plan in terms of its Equality, Diversity, Inclusion and Accessibility in the Built Environment		
L6 Analyse the role and value of openness and transparency versus confidentiality and commercial sensitivity, i.e. Whistleblowing		
Examine company, industry or government policies for inclusivity and their value to the construction industry		

PROCUREMENT AND TENDERING PRACTICE L4 Demonstrate knowledge of various procurement methods and tendering procedures and e-tendering Identify governance processes and policies for procurement pre-tender contract review process Understand sustainable and intelligent procurement, including responsible sourcing L5 Apply professional standards of reporting and accountancy. Demonstrate understanding of the need for honesty and accuracy in reporting Demonstrate understanding of tender documentation for projects Report on the tendering and negotiation processes for contractors' selection L6 Review and recommend national and international procedures to comply with professional obligations, e.g. Bribery, money laundering, and other forms of corruption Evaluate and advise on the appropriateness of various procurement routes/methods Evaluate and advise on the appropriateness of various tendering procedure/methods **GOVERNANCE AND CORPORATE SOCIAL RESPONSIBILITY** L4 Identify responsibilities in relation to Governance and Corporate Social Responsibility within public and private bodies and to individuals, including modern slavery such as CIOB's Modern Slavery Toolkit: https://www.ciob.org/industry/policyresearch/policy-positions/modern-slavery L5 Apply ethical frameworks as an aid to decision making. L6 Compare the Governance and Corporate Social Responsibility of organisations and the wider society. Evaluate company decisions from individual and professional ethical perspectives.

SELF-DE\	ELOPMENT AND REFLI	ECTION	
L4 Identify personal strengths, understanding of self and areas for development.			
L5 Prepare a self-development plan with provision for review and reflection.			
L6 Implement a review of and reflection on self-development and self-awareness.			
о		GΥ	
L4 Identify opportunities and threats with using online and digital technology, e.g. AI technology			
L5 Assess the impacts of the opportunities and threats of using online and digital technology, e.g. Al technology			
L6 Recommend opportunities with using online and digital technology, e.g. Al technology			

2.3 Health, Safety and Wellbeing*

Learning outcome	Cross reference to programme module (Module code + title)	Method of assessment	Further comments
LEC	SISLATION AND PRACT	ICE	
L4 Explain the legal environment and terminology of health and safety as it applies to the design and management of construction projects			
Describe the concepts of hazard and risks			
Demonstrate an awareness of the importance and management of construction health, safety, and wellbeing			
Identify relevant regulations to building safety e.g. UK Building Safety Act 2022			
L5 Prepare a risk management plan			
Recognise and appreciate the importance of the roles of the main parties in the CDM Regulations, with particular emphasis on the Principal Contractor			
Review the legal requirement for building safety acts and any other relevant legislation			
L6 Critically evaluate health and safety legislation from a corporate perspective.			
Evaluate safety information management systems, for example, the Golden Thread			

*Further guidance on Health and Safety can be found in Appendix 2

PERSONAL RESPONSIBILITY			
L4 Describe the importance of and provide a overview of the duties of all persons involved in construction projects with regard to health, safety, and wellbeing			
L5 Appraise a range of case studies and statistical data regarding accidents and review impact as well as causes and effects.			
L6 Reflect on personal responsibility for health, safety and wellbeing at all levels within an organisation and the consequences of action and inaction.			
	MANAGEMENT		
L4 Demonstrate an understanding of the various health and safety management tools and techniques, and recent developments in health, safety and wellbeing management and training.			
L5 In the context of design and construction, identify and manage both potential and actual health, safety and wellbeing hazards and risks.			
L6 Critically evaluate health and safety management procedures on a variety of projects.			
MENTAL HI	EALTH, WELLBEING, AM	ND SAFETY CULTURE	
L4 Identify the issues associated with the management of wellbeing and safety culture in construction.			
Identify the major causes of ill health and serious injury in construction			
L5 Analyse the barriers associated with establishing and maintaining an organisation's health, safety and wellbeing culture and practices.			
Appraise a range of scenarios that demonstrate reasons for failure on site			
L6 Recommend how the Construction Industry should enhance competence, behaviour and commitment to health, safety, and wellbeing in both the design and management of construction projects			

2.4 Sustainability

Learning outcome	Cross reference to programme module (Module code + title)	Method of assessment	Further comments
	GLOBAL ISSUES		
L4 Define sustainability, with reference to known definitions such as from the Brundtland Report, and frameworks such as UN Sustainable Development Goals			
Demonstrate an understanding of the three pillars of sustainability: • Social sustainability and quality of life • Economic sustainability • Environment sustainability Identify significant global environmental issues, such as the climate crisis, biodiversity loss, resource scarcity, waste, deforestation, and water insecurity, and consider how construction may contribute to them			
L5 Explain the scale of the Built Environment's impact on the environment.			
Recognise and appreciate the energy and carbon impact of buildings across their life cycle			
Appreciate the different relevant environmental assessment methods and standards, for example LEED, BREEAM, whole life carbon assessment, and life cycle assessment			
Identify the role of technology in addressing sustainability			
L6 Analyse the main sustainability impacts that a building has over the duration of its life cycle, from design through construction, use, refurbishment and adaptation to demolition and disposal.			
L	EGISLATION AND POLIC	CY	
L4 In relation to sustainable development demonstrate an understanding of: • issues • Terminology • International Protocols • Policy • Legislation • Design			
L5 Describe the relevance of international protocols such as the UNFCCC			
Describe the key legislative drivers which seek to minimise the impact of construction activity and the built environment, for example, Net Zero, Building codes and regulations, etc.			
 L6 Examine the Construction Industry's challenges, opportunities and responsibilities with regards to the three themes of sustainability. social sustainability and quality of life 			
 economic sustainability environmental sustainability 			

NEW BUILD DESIGN AND RETROFIT			
	BOILD DESIGN AND RE		
L4 Recognise a building's carbon impact and the role of design in minimising it			
Explain key principles of 'low energy' building design, emissions resulting from providing a comfortable and 'passive' design and 'healthy' buildings. Healthy internal environment through the provision of: • Heating and cooling • Air tightness and quality • Lighting quality			
L6 Undertake cost-benefit and feasibility analysis of carbon issues in relation to building design and operational management.			
Make comparisons between predicted and actual sustainability performance of buildings carbon emissions			
Compare the relative carbon impacts of retain and retrofit versus demolish and rebuild			
A	SSESSMENT OF BUILDI	NGS	
L4 Understand key principles of environmental impact and energy/ carbon assessment methodologies.			
L5 Apply appropriate environmental impact and/or carbon/energy assessment techniques.			
L6 Carry out an impact assessment of the provision of a comfortable and healthy internal environment on a building's carbon emissions.			
Critically appraise carbon/energy assessment techniques			
l l l l l l l l l l l l l l l l l l l	WASTE AND RESOURCI	EUSE	
 L4 Demonstrate an understanding of the sources of waste in the built environment including: Material waste and recycling Labour resourcing Identify the importance of applying the waste hirearchy 			
L5 Develop and apply policies to establish responsible sourcing and eliminate waste within the lifecycle of a construction project.			
Describe the meaning of a circular economy L6 Evaluate techniques available to reduce all waste and enhance recycling including lean construction, resource efficiency and the adoption of the circular economy for sustainability			
CONSTRUCTION SITE SPECIFIC ISSUES			
L4 Identify and explain how construction sites and operations impact on the environment.			
L5 Identify and apply appropriate methods to mitigate negative sustainability impacts during the construction process.			
Identify roles and responsibilities in minimising impact on the environment from site activities			

	CLIENTS		
	CLIENTS		
L5/6 Evaluate the importance of sustainability with regards to Clients' Corporate Social Responsibility, vision, image and Key Performance Indicators. Identify the role of clients in driving sustainability in the built environment, for example by specifying standards			
CLIM/	ATE ADAPTATION AND	RESILIENCE	
L4 Identify the importance of a climate resilient built environment			
L5 Describe how the built environment should adapt to and be prepared for a changing climate, including protecting people, buildings, communities, towns and cities from the impacts of climate change			
2.5 The Construction Environment			
Learning outcome	Cross reference to programme module (Module code + title)	Method of assessment	Further comments
THE	CONSTRUCTION INDU	STRY	
 L4 In relation to the national and international construction industry, understand and appreciate its: Historical development Scale, structure and output Future opportunities 			
L5 Identify the appropriate stakeholders involved in the construction process and their relevant roles and responsibilities.			
Recognise the collaborative linkages and interdisciplinary relationships between the functions of construction and the other disciplines of the built environment.			
L6 Review threats and opportunities for the future development of the construction industry.			
soci	AL AND ECONOMIC IM	PACT	
L4 Describe the role of the construction industry in the economic and social wellbeing of a country and the provision of an inclusive society.			
L5 Understand and appreciate the social, inclusive and political issues which impact on planning, design and development of the built environment.			
L6 Appraise and evaluate the influence of current issues including, Sustainability, Health & Safety internationalisation and inclusion on the social and economic aspects of construction activity worldwide.			

L4 Identify and describe the principles of: The legal system related to construction activity The legal system related to construction activity including planning regulations Image: Construction and proceedings in relation to the design, construction and proceedings in relation to the design, construction and period period on the design on t				
The legal system related to construction: activity The law of contract and tort Statutory control of construction and uperation stages associated with: Contracts and their administration Planning Employment Environment Design L4 Adayse the impact that legal obligations have on the construction and uperation Planning Environment Design L4 Adayse the impact that legal obligations have on the construction management process. Appraise and evaluate alternative dispute resolution processes. L4 Identify and describe the principles of: Market structure and operation Supply and demand Market structure and operation L5 Compare, appraise and select different processes for construction angarement processes for construction angarement Market structure and operation L5 Compare, appraise and select different processes for construction activity. Understand and appreciate the global market processes for construction company operating in the global market place L4 Demonstrate an awareness of the principles of: - Finance for construction organisation ad activities L5 Apply financial information as It relates to the management of construction progets: - Cash flow L5 Apply financial information as It relates to the management of construction projets: - Cash flow L5 Apply financial information as It relates to the management of construction projets: - Cash flow L5 Apply financial information as It relates to the management of construction projets: - Cash flow L6 implement procedures and practices associated with the settlement of final - Envence or and practices - Cash flow L6 implement procedures and practices - Cash flow cost and finance from inception - Value management of construction projets: - Cash flow - Cash flow, cost and finance from ince				
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L4 Identify and describe the principles of: • Marco and micro economics • Supply and demand • Market structure and operationImage: Construction and construction activity.L5 Compare, appraise and select different procurement processes for construction activity.Image: Construction activity.Understand and appreciate the global market for construction from a commercial perspectiveImage: Construction from a commercial perspectiveL6 Examine the opportunities and problems for a construction company operating in the global market placeImage: Construction from a commercial perspectiveL4 Demonstrate an awareness of the principles of: • Finance for construction organisation and activities • Cash flow, cost and finance from inception to demolition • Tender evaluation • Value management / engineering • Whole life costingImage: Construction final cost and finance from inception to demolition final • Cash flow, cost and finance from inception to adminise the settlement of finalImage: Construction final cost and finance from inception to adminise the settlement of final	resolution processes.			
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associated with the settlement of final	 the management of construction projects: Cash flow, cost and finance from inception to demolition Tender evaluation Value management /engineering Whole life costing 			
Appraise and evaluate the financial management of corporate enterprises and professional practices.	associated with the settlement of final accounts, claims and dispute resolution. Appraise and evaluate the financial management of corporate enterprises and			

DESIGN AND CONSTRUCTION PROCESS			
 L4 In relation to the development process, understand and appreciate: Stages in the process Role of construction professionals within the process Responsibility for ensuring designs are inclusive Use of digital technologies and information management 			
L5 Compare, appraise and select different construction materials, products and processes from both an initial cost and whole life cost perspective. Compare and appraise the use of digital technologies and information management.			
L6 Demonstrate an appreciation of property and infrastructure development in relation to financial and legal aspects including development viability and appraisal.			
Evaluate the importance and challenges of working in a collaborative environment and the integration of design, costing and scheduling.			
MEAS	UREMENT AND ESTIM	ATING	
L4 Undertake the measurement of land and construction work both on plan, through the use of digital information modelling or on-site			
Demonstrate knowledge of the importance and use of measurement standards			
Explain the basic principles of land surveying			
L5 Produce examples of price and cost estimation for construction activities from feasibility through to final accounts.			
Produce detailed measurement using a range of standard methods of measurement			
Demonstrate competence in geomatics			
L6 Critical appraisal of digital measurement and estimating systems			
Evaluate the appropriate methods of measurement and estimating of construction works and their relationship to financial control of a project			

Learning outcome	Cross reference to programme module (Module code + title)	Method of assessment	Further comments
BUILDING F	PERFORMANCE AND TE	CHNOLOGY	
L4 Describe and illustrate the functional and performance requirements of simple buildings.			
Describe, select and illustrate alternative options available for the construction of primary and secondary building elements of domestic buildings and the necessary site set-up Identify an appropriate range of technologies for the building project functional performance			
L5 Describe and illustrate the functional and performance requirements of framed and multi-storey buildings.			
Describe, select and illustrate alternative options available for the construction of primary and secondary building elements of framed and multi-storey buildings including those with basements.			
Undertake design option appraisal to ensure adherence to current building legislation including the conservation of energy, carbon emissions, inclusion, accessibility, security and structural performance control.			
L6 Examine the potential and use of sustainable technologies applied to case-study buildings.			
Evaluate and challenge the use of proposed technologies against the need for contemporary and innovative solutions to achieve integration, buildability, speed, cost, health and safety, inclusion and quality criteria applied to case study buildings.			
BU	ILDING SERVICES DESI	GN	
L4 Appreciate the function and design of building services for a building to ensure human comfort.			
L5 Recognise and appreciate the function and design of complex building services including those where the whole building operates as a building services system Describe the fire safety requirements of high-rise buildings			
L6 Examine and select suitable solutions, including renewable technologies for building services in the context of a development project.			

PR	OBLEMS AND DEFECT	S	
L4 Demonstrate a knowledge of common defects and refurbishment technologies to restore a building for contemporary use			
L5 Discuss the refurbishment and adaptation options applicable to the upgrading of or changing the use of a building			
L6 Investigate and propose innovative methods to future proof buildings			
	SITE INVESTIGATION		
L4 Review site investigation techniques. Awareness of issues surrounding contaminated land and brownfield sites.			
Awareness of issues surrounding green field site (e.g. biodiversity impact)			
L5 Apply principles of site investigation to assess the suitability of sites for construction projects.			
L6 Analyse the effectiveness of site investigation techniques in preventing unforeseen problems in the construction phase of a project.			
Evaluate and recommend suitable choices of technology based on site investigation			
	MATERIALS		
L4 Describe the properties of building materials and understand their performance characteristics with regard to the natural environment and their impact upon it, including hazardous materials			
L5 Analyse the performance of materials in use, based upon their scientific properties and the environment and conditions in which they are used.			
L6 Evaluate the viability of ethically sourcing construction materials and possible effects this may have on the construction process			
Demonstrate an understanding of embodied carbon and embodied biodiversty impacts of materials			
BUILDING MAINTENANCE			
L4 Demonstrate knowledge of performance maintenance technology and maintenance management			
L5 Select and apply appropriate materials and technologies recognising their limitations and benefits			
Apply and evaluate various maintenance technologies and maintenance management systems as appropriate to various building types, for example; domestic, commercial, industrial, public.			

2.7 Dissertation/Design/Research Project

Learning outcome	Cross reference to programme module (Module code + title)	Method of assessment	Further comments
RESEARCH			
L6 Research a contemporary construction built environment issue.			
Demonstrate an ability to select and apply appropriate ethical research methods.			
Analyse, synthesise and evaluate a key issue affecting the built environment.			

2.8 Work-Based Learning

Degree programmes accredited by the CIOB are by their nature vocationally focussed therefore, the CIOB expects to see a range of work-based learning (WBL) elements within accredited awards. WBL can take many forms, ranging from apprenticeships, through year-long industrial placements and shorter placement periods, to the inclusion of field trips, site visits, industrial/professional guest lectures as well as live and historic case studies and assignments based on real projects. Although the CIOB does not require that all accredited programmes include a year-long placement it does strongly advocate the inclusion of such an opportunity. The CIOB does expect that all accredited programmes include suitable WBL elements and opportunities and programmes seeking accreditation are therefore required to identify the WBL elements on the award.

The following learning outcomes have been extracted from our Professional Development Programme and institutions are encouraged to use these to support and provide further guidance to students on sandwich programmes, employed part-time students, or apprentices, although it is not expected that students will meet all the outcomes. Students are also able to gather their evidence by completing the associated Work Placement Portfolio, to request a copy please contact the Accreditation Manager via **educationadmin@ciob.org.uk**. Alternatively, for a fee students are able to register on the full PDP, which upon successful completion and following graduation are awarded Chartered Membership. Please contact the Training and Development Manager via **educationadmin@ciob.org.uk** for more information.

Learning outcome	Cross reference to programme module (Module code + title)	Method of assessment	Further comments
Developing 1	ransferable And Manag	gement Skills	
	COMMUNICATION		
Present information effectively to various audiences.			
Demonstrate effective meeting skills.			
Demonstrate effective interpersonal skills and informal communication.			
	DECISION-MAKING		
Identify and determine solutions to problems.			
Investigate problems, causes and effects within the job role.			

м	ANAGING INFORMATIO	N	
Identify and gather all necessary information required to carry out tasks within the job role.			
Process information effectively to meet work objectives.			
Identify actions to remedy incorrect or insufficient information.			
LEADERSHIP AND	STRATEGIC/FINANCIA	L MANAGEMENT	
Identify the various procurement procedures within your organisation.			
Demonstrate the ability to identify and manage risk.			
Demonstrate effective budget control and identify budget constraints. Demonstrate effective time management.			
PERS	ONAL EFFECTIVENESS	AT WORK	
Demonstrate effective team working.			
Demonstrate the ability to deal with conflict in teams.			
Deve	eloping Occupational S	kills	
PLANN	IING AND ORGANISING	WORK	
Set and review work objectives Plan activities and work methods.			
Monitor and control work activities.			
MANAGING HEALTH,	SAFETY, MENTAL HEA	LTH, AND WELLBEING	
Identify job responsibilities and practices under health, safety and welfare legislation.			
Identify and describe the implementation of risk control measures.			
	MANAGING QUALITY		
Investigate the quality of a product, service or process.			
Undertake an investigation for the organisation.			
IMPLEMENTING SUSTA	INABLE CONSTRUCTIO	N AND DEVELOPMENT	
Identify and evaluate the company's policies and practices in sustainable building.			
Identify ways of protecting the workplace and surrounding environments			
	MERCIAL, CONTRACTU	AL AND LEGAL ISSUES	
Identify the impact/consequences of making decisions.			
Demonstrate an understanding of construction and relevant civil law.			