



Chartered Membership Programme

The Chartered Membership Programme, formerly Experienced Practitioner Assessed programme (EPA), is a route to MCIOB for individuals with significant management experience who lack formal qualifications at honours degree level. Typically those enrolling on the programme will have worked in a management role for 5 years. However, the programme is also suitable for a wide range of technical and specialist professionals working in the construction industry. The programme also forms a progression route to MCIOB for candidates who have completed the CIOB Site Management Programmes.

The aim of the Programme is to provide a route to Chartered Membership that covers both the academic and competence requirements for CIOB membership.

The Programme is made up of 4 modules designed to give you the specialist knowledge and skills required to manage construction projects effectively. The modules are delivered through approved providers.

- Construction Technology
- Management
- Contracts and Commercial Practice
- Health, Safety and the Environment

ASSESSMENT

Assessment is made via an Open Book Exam which is carried out at the end of the programme. You will be provided with a construction project scenario and drawings and will answer 4 questions relating to the 4 modules. You will be given 10 days to submit your answer to the questions through the virtual learning environment, Moodle. This allows you to use the resources of your choice to complete your exam.

The Professional Review

Your CMP provider will also give advice and support on the completion of your Professional Review application. This is an assessment of your occupational and management competence and the final stage of gaining your Chartered membership.

Title	Construction Technology
Level	6
GLH	36
Learning outcomes: The learner will:	Assessment criteria: The Learner can:
1. Understand and apply concepts in ground engineering techniques and substructure technology.	<ul style="list-style-type: none"> a. Propose suitable foundation system in relation to information provided (TN – Reinforced strip, piles, rafts) b. Propose suitable basement construction c. Propose suitable temporary works in relation to excavations and ground stabilisation. (TN – Well points, grouting, consolidation, compaction, timbering, contaminated soil)
2. Understand the principles of the installation of building services	<p>2.1 Select and describe the operation of building services and systems for a multi storey structure. (TN – Space heating and natural ventilation, fire safety engineering features, building security systems, movement and circulation of people, mechanical ventilation, energy and building management systems.)</p> <p>2.2 Propose a suitable schematic diagram to indicate services installation distribution. (TN – telecommunications, power, water, gas drainage, surface water)</p>
3. Analyse the design and operation of the superstructure for commercial and multi storey buildings	<p>3.1 Select and describe suitable methods of construction for framed multi storey buildings (TN – in-situ concrete, precast concrete, steel and timber frame, stability, movement, imposed loads, stress, bending, shear, strain, torsion, deflection,)</p> <p>3.2 Select and describe innovative methods of construction for multi storey buildings (TN- sustainable technologies, industrialised building, off-site manufacture)</p> <p>3.3 Select and describe suitable systems for the exterior envelope of multi storey buildings. (TN – precast concrete, rain screen cladding, masonry, curtain walling)</p> <p>3.4 Discuss building performance service life, installation, building materials performance. (TN – moisture movement, dry shrinkage, electro-chemical performance, installation of cladding systems, planned maintenance, acoustic and thermal performance)</p>
4. Understand the principles of relating to work on existing structures and fabric	<p>4.1 Select and describe suitable methods for modification and refurbishment of existing structures. (TN - façade retention techniques, major structural repairs, underpinning, knocking through, tanking and basements)</p> <p>4.2 Select an describe suitable methods for fabric repair and maintenance (TN – dry rot, wet rot, wind- and water-tightness, rainwater goods, damp proof courses)</p>
5. Understand the design process in relation to the built environment	<p>5.1 Discuss the principles of architectural aesthetics in relation client and user requirements.</p> <p>5.2 Discuss environmental sustainability, legislation, and embedded safe design systems in relation to the design process. (TN – CDM regulations, Planning and Building Control)</p> <p>5.3 Discuss the social, political and cultural impact of design and development.</p>
Additional Information about the unit	
Units aim(s)	Discussion points/Examples Glasgow red Road flats, BBC Scotland, Bedroom tax.

The aim of this module is to ensure the candidates are provided the required knowledge to write a technical report for a client or line manager.	<p>Illustrated Technical Report</p> <p>Method Statement</p> <p>Planned maintenance schedule</p>

Title	Management
Level	6
GLH	
Learning outcomes: The learner will:	Assessment criteria: The Learner can:
1. Understand process management in the construction industry	<p>1.1 Explain the management of a construction project from inception to completion (TN – inception/completion)</p> <p>1.2 Analyse the construction supply chain for a given project</p> <p>1.3 Evaluate process management tools for a given project (TN – BIM,)</p> <p>1.4 Analyse risk management associated with a given construction project</p>
2. Understand the management of resources used in the construction industry (HR, Resource management, business management,)	<p>2.1 Explain personnel management in an organisational context (leadership, supervision, team building (TN motivation, recruitment, training and development)</p> <p>2.2 Explain organisational policies and procedures for plant, equipment and materials management (TN procurement, selection, performance storage and security)</p> <p>2.3 Describe options for project finance and cash flow analysis used for construction projects</p> <p>2.4 Describe the process for managing sub-contractors (TN – selection evaluation, control and co-ordination)</p>
3. Understand the planning and scheduling of construction projects (production management,)	<p>3.1 Evaluate tools used for planning and scheduling construction projects</p> <p>3.2 Evaluate options to manage delay in construction projects (give them a scenario)</p> <p>(TN Just-in-time, , critical path analysis, Gantt Charts, monitoring and control of time Management , time risk analysis,)</p>
4. Understand performance management within the construction industry (professional ethical responsibilities, corporate management, communications)	<p>Project performance</p> <p>People</p> <p>Evaluate methods of managing information</p> <p>Evaluate problem solving techniques</p> <p>Analyse budgets, time, profits</p> <p>– setting targets, monitoring KPIs</p> <p>LEAN Value Engineering</p>

Title	Contracts and Commercial Practice
Level	6
Indicative contact teaching time (including distance learning):	
Learning outcomes: The learner will:	Assessment Criteria: The Learner can:
1. Understand the law in relation to the construction industry. (Law - in the candidate's jurisdiction)	1.1 Discuss the legal framework governing construction developments (TN – common law and torts, statutes, byelaws) 1.2 Explain how contracts are formed and discharged, and describe the consequences of breach (TN – letters of intent, oral contracts, limitations and contracts under hand/deeds, remedies for non-performance including termination, damages) 1.3 Describe the need for, and obligations which might arise from contractual third party rights/collateral warranties 1.4
2. Understand the factors that affect the costs of a construction project	2.1 Discuss the effects of government policy on the economics of the construction industry (TN –public procurement, sustainability/environmental requirements, health and safety, taxation) 2.2 Discuss the relative importance of market conditions, resource availability, legislation, town planning, site location/conditions, climate (TN - supply and demand, skills shortages, project-specific issues, life cycle/whole life costs)
3. Understand pre-and post-contract administrative processes.	3.1 Describe estimating and tendering processes (TN – differentiate between these; cost planning, bills of quantities, tendering procedures) 3.2 Describe the process of interim valuations and preparing final accounts (TN – parties' obligations, content, methodology, frequency, payment terms, retentions, "Construction Act") 3.3 Describe how changes to the contract are administered. (TN – Variations/Changes, extension of time, compensation or loss and/or expense, acceleration) 3.4 Describe the rationale for, and process of cost-value reconciliation
4. Understand how construction work is procured	4.1 Discuss how construction work is procured, evaluating the merits of alternative routes. (TN – traditional, design and build, management contracting, construction management, term contracting, partnering, PFI; single-, two-stage, negotiated tenders; sub-contracting, appointing consultants)
5. Understand how commercial risk is managed.	5.1 Discuss the nature of risks which can impact on construction projects.(TN – delay, defective work, insolvency, cost overrun) 5.2 Discuss the commercial tools available to mitigate the impact of these risks. (TN- solvency vetting, insurances, guarantees and bonds, retention, quality/programme management, budgeting, cost monitoring and forecasting)
6. Understand how construction disputes can be resolved.	6.1 Describe how disputes can arise in the course of construction projects 6.2 Describe methods by which these disputes can be resolved (TN – arbitration, litigation, statutory adjudication, mediation)
Additional information about the unit	
Units aim(s)	

Title	Health, Safety and the Environment
Level	6
Credit value	
Learning outcomes: The learner will:	Assessment criteria: The Learner can:
1. Understand the legal framework underpinning health and safety.	Describe emergency management procedures (TN Understand company policies for successful Health and Safety Management, principles of accident investigations, actions and investigation techniques, report improvements to prevent reoccurrence, presentation / interpretation of accident statistics, RIDDOR) Evaluate health and safety management systems. The legal system, common law, tort, criminal and statutory law, the court systems, moral and ethical aspects. Identify and apply the legislation, standards and best practice. (TN - The role / powers of the HSE / police in accident prevention and investigation with reference to the situation, Codes of practice)
2. Understand actual or anticipated health, safety and environmental risks.	Prepare a Risk Assessment Prepare a management plan for safe working practices. Assess and manage actual or anticipated health, safety and environmental risks (TN - At pre-contract and contract stages: the principles of risk assessment (five steps to risk assessment), quantitative and qualitative risk techniques, principles of prevention (control measures to be applied)
3. Understand the aims of sustainable development, legislation and its application to the Built Environment.	Describe the relationship between economics, society and the environment Evaluate how legislation works to protect natural resources (TN – Wildlife, Pollution, Waste management, Sustainable communities, Contaminated land)
4. Understand problems from an environmental perspective and develop a sustainable solution	Evaluate appropriate environmental assessment methodologies (TN - Life cycle assessment, Environmental Impact Assessment, Building and sustainable development, Identify and apply current technologies and anticipate future and legislative requirements)
5. Understand environmental concepts and how they apply to organisational strategy and policy formation.	Evaluate environmental improvement throughout the organisations customer and supply chain (TN - Building regulations, Public funding and grants, Environmental Management System, The underlying concept of carbon management and offsetting)