

Module Information

2022.01, Approved

Summary Information

Module Code	4505ICBTCE
Formal Module Title	Management and Health - Safety Practice in Construction
Owning School	Civil Engineering and Built Environment
Career	Undergraduate
Credits	15
Academic level	FHEQ Level 4
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
International College of Business and Technology

Learning Methods

Learning Method Type	Hours
Lecture	45
Workshop	30

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
APR-PAR	PAR	April	12 Weeks

JAN-PAR	PAR	January	12 Weeks
SEP_NS-PAR	PAR	September (Non-standard start date)	12 Weeks

Aims and Outcomes

Aims	This unit provides learners with an opportunity to understand management principles and their application to the construction and built environment sector including an understanding of health, safety and welfare legislation and effective health and safety policies. Learners will develop the skills needed to undertake risk assessments.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Identify the evolution of management principles and their application to the construction and built environment sector.
MLO2	2	Demonstrate the knowledge on construction and built environment sector in terms of structures and activities and apply management techniques used in the construction and built environment sector.
MLO3	3	Apply the methods of procurement and contracting used in the construction and built environment sector and produce a risk assessment in design and construction.
MLO4	4	Identify the main requirements of an effective health and safety policy & assess hazards and solve health safety problems and the health, safety and welfare legislation applicable to the construction and built environment sector.

Module Content

Outline Syllabus	<p>Principles of management: management pioneers and thinkers, e.g. McGregor, Maslow, Herzberg, Drucker. Definitions, processes, e.g. forecasting, planning, organising, motivating, controlling, coordinating, communicating. Human resources management: individuals and teams (behaviour, motivation, leadership). Structure and activities: sectors, e.g. Construction, civil engineering, building services engineering. Nature of services provided by each sector, general roles and responsibilities of members of project teams, specific roles and responsibilities of professionals within project team. Organisational structures and approaches: direct line. Lateral, functional and staff relationships, chain of command, span of control, concepts of responsibility, e.g. duty, authority, accountability, delegation. Corporate theories, e.g. mission, strategy, planning, policies, objectives, values. Centralised and decentralized organisations. Project-based organisations, job design, team structures, team working. Influence of scale and size of contracts: project and contract procurement, contractual methods, impact of contract on management of organisations, e.g. role of designer, main contractor, sub-contractor, supplier. Planning: project organisation (layout and accommodation, method statements, plans of work, safety plans) coordination, monitoring, control, e.g. Gantt charts, critical path arrow diagrams, precedence diagrams, line of balance. Manual and computer-based techniques. Procurement scheduling and control: materials, plant, supply chain management. Just In Time, recycling and safe disposal of demolished materials, waste management. Scheduling. Resourcing and utilisation of sub -contracted and direct labour, budget and cost control (estimated cost, planned performance cost, actual cost, cash flow). Quality control: audit, inspection, statutory liaison. Risk management: assessment, liabilities, risks, security, insurance requirements. Other considerations: workforce recruitment, training, assessment and legislative, requirements, e.g. Equal opportunities, health and safety. Information verification and control, site meetings, communication and reporting, client liaison, public liaison, government initiatives. Procurement methods: traditional methods of tendering, other methods, e.g. partnering, public private partnerships, Private Finance Initiative (PFI), client and project objectives. Contracts: legal definitions, forms of contract, stages within a contract, contractual obligations of performance (time, cost, quality, insurance, warranty arrangements), rights of parties to contract. Practice of procurement: construction teams, e.g. multi-disciplinary teams, integrated teams, partnering, government initiatives, e.g. Latham Report, Egan Report, Benchmarking, key performance indicators (KPIs), sustainability and environmental management issues, legislation, corporate values, professional standards. Legislation and approved codes of practice: current relevant legislation to include The Health and Safety at Work etc. Act 1974, The Construction (Design and Management) Regulations 2007, approved codes of practice and guidance notes, The Management of Health and Safety at Work Regulations 1999. Implications of legislation: roles and responsibilities of individual team members, requirement not for compliance with all relevant legislation, likely results of non-compliance, penalties associated with non-compliance. Health and safety policy statement: sections, e.g. statement of intent, organisation section, arrangements. Health and safety organisation and arrangements: health and safety procedures, legal requirement to report accidents, effectiveness of health and safety procedures, importance of training and competency, e.g. induction training, Construction Skills Certificate Scheme (CSCS), statutory requirements for inspection of plant and equipment, recording of health and safety data to meet legal requirements,</p>
Module Overview	
Additional Information	

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Investigative Report	30	0	MLO1, MLO4
Exam	Written Examination	70	2	MLO2, MLO3

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Karl Jones	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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