

Module Title:	Construction Health, Safety and Risk Management
Language of Instruction:	English
Credits:	5
NFQ Level:	6
Module Delivered In	3 programme(s)
Teaching & Learning Strategies:	Lectures Projects Private study
Module Aim:	The aims of the subject are: (a) To train the learners in the practice of safe manual handling and appreciation of ergonomic assessment so as to provide the students with a QQI Certificate. (b) To develop the learners' knowledge of Hazard Identification and Risk Analysis for construction design and construction site activities. (c) To develop the learners' knowledge of current Health and Safety Legislation as relevant to the responsibility and roles of Construction design team members, Client and employees. (d) To develop the learners' knowledge of basic fire technology and to help students to understand human reactions to fire situations, fire evacuation procedures within organisations and fire containment and damage limitation within large organisations. (e) To develop the learners' knowledge of security organisations and systems within large organisations.

Learning Outcomes	
On successful completion of this module the learner should be able to:	
LO1	Demonstrate and apply knowledge of Health & Safety Legislation, Hazard Identification and Risk Assessment in relation to building design, construction, and maintenance.
LO2	Undertake Hazard Identification and Risk Assessment for a variety of design and construction activities so as comply with the competencies required by the QQI Manual Handling and Ergonomic Certificate.
LO3	Demonstrate through sketches and written descriptions a knowledge of basic fire services technology, fire legislation associated with fire management, fire containment and limitation and fire evacuation procedures.
LO4	Demonstrate through sketches and written descriptions a knowledge of security technologies, security barriers, security organisations and systems within large organisations.
LO5	demonstrate a knowledge of the requirements, duties, responsibilities and competencies associated with SAFE PASS and also for a variety of design and construction activities so as comply with the competencies required by the QQI Manual Handling and Ergonomic Certificate.

Pre-requisite learning
Module Recommendations <i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>
No recommendations listed
Incompatible Modules <i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i>
No incompatible modules listed
Co-requisite Modules
No Co-requisite modules listed
Requirements <i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i>
No requirements listed

Module Content & Assessment

Indicative Content

Health and Safety within Design and Construction Management

(a) Hazard Identification and Risk Assessment, (b) roles and duties, (c) Personal health, safety and wellbeing awareness within the stressful construction industry

Health and Safety

(a) Health and Safety Legislation, (b) the role and responsibilities of the design team, client, employees, role of HSA

Manual Handling

(a) manual handling and ergonomic assessment Q&I training. Undertake self-assessment and assessment of partner for manual handling performance

Fire Science

(a) Propagation of fire, (b) Methods of spread of fire (c) Fire loads

Fire Services

(a) Extinguishers and the fire triangle, (b) fire alarms and detectors, (c) Fire water based services and sprinklers, (d) Building Services and fire prevention

Human Reaction to Fire

(a) The psychology of fire, (b) people reactions to fire scenarios, (c) Responsibilities and duties of evacuation fire management, marshals and sweep teams

Evacuation Routes

(a) Building Regulations Part B, (b) Evacuation routes, travel distances and escape route protection, (c) Stair widths and design in relation to evacuations, (d) Emergency lighting and signage

Security Systems

(a) Barrier systems, (b) security detection systems, (c) security alarms, (d) computer security and phishing, etc.

Site Fire Safety

(a) Site fire safety, (b) Hot work, (c) BLEVEs

Security Personnel

(a) Security Management, (b) security staff responsibilities/duties, (c) external security v. internal security, (d) Site access control

Assessment Breakdown	%
Continuous Assessment	50.00%
Project	50.00%

Continuous Assessment

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Case Studies	n/a	1,2	50.00	n/a

Project

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	No Description	1,2,3,4,5	50.00	Sem 1 End

No Practical

No End of Module Formal Examination

SETU Carlow Campus reserves the right to alter the nature and timings of assessment

Module Workload

Workload: Full Time		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	12 Weeks per Stage	4.00
Estimated Learner Hours	12 Weeks per Stage	8.00
Total Hours		144.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_CMOPB_B	Bachelor of Science (Honours) in Construction Management	3	Mandatory
CW_CMQSU_B	Bachelor of Science (Honours) in Quantity Surveying	3	Mandatory
CW_CMBSE_D	Bachelor of Science in Construction Management	3	Mandatory