



Title:	Building Elements & Tech - Building Control	APPROVED
Long Title:	Building Elements & Tech - Building Control	
Module Code:	CRAF6014	Duration: 1 Semester
Credits:	5	
NFQ Level:	Fundamental	
Field of Study:	Craft	
Valid From:	Semester 1 - 2015/16 (September 2015)	
Module Delivered in	1 programme(s)	
Next Review Date:	May 2020	
Module Coordinator:	MICHAEL HOURIHAN	
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Module Description:	This module builds on the student knowledge and understanding of the elements that constitute the internal building fabric	
Learning Outcomes		
<i>On successful completion of this module the learner will be able to:</i>		
LO1	Describe and apply of the principles of building control.	
LO2	Outline and apply the appropriate methodologies (Sustainable and Robust) in improving the energy performance standards of buildings.	
LO3	Outline and apply the appropriate methodologies (Fire and sound) to achieve current building regulation compliance.	
LO4	Explain the processes in designing timber engineered structural forms.	
LO5	Identify and address health and safety issues and procedures commonly arising in the construction context.	
Pre-requisite learning		
Module Recommendations <i>This is prior learning (or a practical skill) that is strongly recommended before enrolment in this module. You may enrol in this module if you have not acquired the recommended learning but you will have considerable difficulty in passing (i.e. achieving the learning outcomes of) the module. While the prior learning is expressed as named CIT module(s) it also allows for learning (in another module or modules) which is equivalent to the learning specified in the named module(s).</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. You may not earn additional credit for the same learning and therefore you may not enrol in this module if you have successfully completed any modules in the incompatible list.</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. You may not enrol on this module if you have not acquired the learning specified in this section.</i>		
No requirements listed		
Co-requisites		
No Co Requisites listed		

Module Content & Assessment

Indicative Content

Building Control

Building control act (CDM), drainage and services, thermal insulation and heat transfer, the effects of vapour, dampness, ventilation, air tightness. Sustainable construction passive and active construction techniques, retrofitting/refurbishment and the management of site waste material including hazardous materials.

Performance and quality assurance

Heating systems including; wet heating, underfloor space and warm air. Lighting; natural and artificial systems, energy, fire, sound/acoustic, rating and performance.

Timber engineering

Design and manufacture glulam forms and lamination. Timber built up beams and purlins and components, composite materials and modern jointing techniques.

Health & Safety

Use of risk management to identify hazards in the workplace, assess the risks and propose controls with respect to current legislation; Health and Safety at Work Act (2005), Construction Regulations (2001 and 2005).

Assessment Breakdown	%
Course Work	30.00%
End of Module Formal Examination	70.00%

Course Work

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	On the elements that constitute the internal fabric	2,3	30.0	Week 9

End of Module Formal Examination

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	End-of-Semester Final Examination	1,2,3,4,5	70.0	End-of-Semester

Reassessment Requirement

Repeat examination

Reassessment of this module will consist of a repeat examination. It is possible that there will also be a requirement to be reassessed in a coursework element.

The institute reserves the right to alter the nature and timings of assessment



Module Workload

Workload: Full Time				
<i>Workload Type</i>	<i>Workload Description</i>	<i>Hours</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	Delivery of module content.	4.0	Every Week	4.00
Independent & Directed Learning (Non-contact)	Revision/review of module content.	3.0	Every Week	3.00
Total Hours				7.00
Total Weekly Learner Workload				7.00
Total Weekly Contact Hours				4.00

This module has no Part Time workload.

Module Resources

Recommended Book Resources

- Department of the Environment 2010, *Conservation of Fuel and Energy*, Stationary House Dublin
- Roger Greeno BA(Hons.) FCIQB FIPHE FRSA, 2010, *Building Services Handbook, Sixth Edition*, Butterworth-Heinemann [ISBN: 978 0 08 09 6982 4]

Supplementary Book Resources

- Homebond 2012, *Right On The Site, All issues*, National House Building Guarantee Company Ireland
- Chartered Institute of Building Services Engineers, *Natural Ventilation in Non-domestic Buildings* [ISBN: 1903287561]
- David V Chadderton 2013, *Building Services Engineering*, 6th Ed., Routledge

This module does not have any article/paper resources

Other Resources

- Website: Health and Safety Authority *Health and Safety*
<http://www.hsa.ie>
- Website: Health and Safety Executive *Health and Safety Regulations UK*
<http://www.hse.co.uk>

Module Delivered in

Programme Code	Programme	Semester	Delivery
CR_ECTWB_7	<u>Bachelor of Science in Craft Technology (Wood) with Business</u>	5	Mandatory