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Title: CONSTRUCTION AND MAINTENANCE OF BUILDINGS  
 Status: Definitive  
 Code: **4208BEHN** (119875)  
 Version Start Date: 01-08-2016  
 Owing School/Faculty: Built Environment  
 Teaching School/Faculty: Built Environment

Team	Leader
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**Academic Level:** FHEQ4      **Credit Value:** 20      **Total Delivered Hours:** 72  
**Total Learning Hours:** 200      **Private Study:** 128

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	48
Tutorial	24

**Grading Basis:** BTEC

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Test	AS1	Test 1	30	
Test	AS2	Test 2	30	
Exam	AS3	Exam	40	

### Aims

- To introduce the student to construction & maintenance techniques associated with low rise domestic dwellings including building services
- To develop an understanding of the performance of buildings and the influence of materials and workmanship specification on performance and maintenance

requirements

## Learning Outcomes

After completing the module the student should be able to:

- 1 Examine the issues of site selection and their influence on the feasibility of the project, and demonstrate the methods of construction typically applied in the formation of the substructure of residential buildings.
- 2 Demonstrate and explain the methods of construction typically applied in the formation of the above ground walls, floors and roofs of residential buildings.
- 3 Demonstrate and explain the methods of construction typically applied in the application of finishes to floors, walls and ceilings, and the impact of sustainability on the construction form, process and site methodologies.
- 4 Explain and illustrate the types, functions and parts of domestic services and their interaction with the construction form and materials
- 5 Demonstrate how the design, construction form and operation of buildings affect the requirement for maintenance, and how this is managed and carried out.

## Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Electronic test 1	2		
Electronic test 2	3		
Exam ICA	1	4	5

## Outline Syllabus

- *Preliminary work associated with site selection and preparation.*
- *Substructure - design and production issues, soils, foundations, excavations.*
- *Superstructure – internal and external walls, flat and pitched roofs, ground and upper floors, internal finishes, domestic services and installation, sustainable construction.*
- *Standards and Regulations- application of the approved documents, specifications*

*These elements will be considered with regards to function, performance, durability, cost, aesthetics and maintenance.*

## Learning Activities

Lectures and tutorial workshops, supported where possible with site visits, guest lectures and videos.

Students should supplement their lecture notes with background reading; journals, digests, trade literature and also use the material that is available through electronic databases and manufacturers.

## **Notes**

This module concerns the construction and maintenance principles and processes associated with residential buildings. In addition there is delivery of a good level of general construction knowledge that will assist students in other modules at levels 4, 5 and 6 and going forward into industry.