

Liverpool John Moores University

Title: MEASUREMENT PROCESSES FOR CONSTRUCTION
Status: Definitive
Code: **4205BEHN** (119872)
Version Start Date: 01-08-2018

Owning School/Faculty: Built Environment
Teaching School/Faculty: Built Environment

Team	Leader
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Academic Level: FHEQ4 **Credit Value:** 20 **Total Delivered Hours:** 60

Total Learning Hours: 200 **Private Study:** 140

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	30
Workshop	30

Grading Basis: BTEC

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Test	AS1	Test 1	25	
Test	AS2	Test 2	35	
Report	AS3	Report	40	

Aims

To establish the principles and conventions for the quantification and costing of construction works and to consider their application by the Quantity Surveyor or the Estimator as part of their key role in the economic and financial management of the construction process.

Learning Outcomes

After completing the module the student should be able to:

- 1 Measure the materials required for various elements of low level domestic buildings using industry standard guidelines and professional procedures.
- 2 Produce pre-tender estimates for construction projects using various information resources.
- 3 Price Bill of Quantity items from first principles.
- 4 Present project related information to a professional standard.
- 5 Use Information Technology and appropriate software packages to produce and price project documentation

Learning Outcomes of Assessments

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

Test 1	1	
Test 2	3	5
Report	2	4

Outline Syllabus

The delivery of material at this level will be set in the context of a low rise residential development.

Introduction to standard measurement conventions, guides and documentation.

Measurement skills, writing the dimensions, calculating simple areas and volumes.

Measurement of simple load bearing structures, excavation, brickwork, concrete work, doors and windows, finishings and simple drainage (including the use of trigonometry).

Converting the measurements to a full Bill of Quantities traditionally and using appropriate software packages.

Introduction to factors affecting construction costs and pricing of labour, plant and materials.

Calculating net unit rates and conversion of estimate to the tender using software packages.

Introduction to software packages to facilitate measurement, documentation and costing.

Learning Activities

Lectures and workshops

Notes

The module will mainly be delivered using practically based workshop sessions to develop the necessary skills required within the industry.