

MODULE DESCRIPTOR

Module Title

Construction Measurement and Cost Planning

Reference	SU2055	Version	1
Created	April 2023	SCQF Level	SCQF 8
Approved	June 2023	SCQF Points	30
Amended		ECTS Points	15

Aims of Module

To provide the student with the ability to recognise the concept of pre-contract quantification of construction work and the skills required for the preparation of Bills of Quantities together with pre-contract estimating and cost control in a built environment context.

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Use the principles and select appropriate methods of recording measurements from drawn information and associated descriptions of works, as defined in the current RICS New Rules of Measurement.
- 2 Use appropriate measurement techniques to given scenarios.
- 3 Report on the relationship between building design and cost.
- 4 Undertake appropriate traditional pre-contract estimating and cost control techniques in a built environment context.
- 5 Undertake critical reflection on the core contents of the module and relate these to application within the workplace.

Indicative Module Content

This module will facilitate investigation of the use of Bills of Quantities (BQs) and their formats including an introduction to and application of the current method of measurement for building works. Students will be exposed to mensuration techniques and conventional methods of booking and recording dimensions. The building economics of design, traditional pre-construction estimating techniques (single and multi-rate) cost planning and the processes of cost control will be studied.

Module Delivery

The module is delivered in Blended Learning mode using structured online learning materials/activities and directed study, facilitated by regular online tutor support. Workplace Mentor support and work-based learning activities will allow students to contextualise this learning to their own workplace. Face-to-face engagement occurs through annual induction sessions, employer work-site visits, and modular on-campus workshops.

Indicative Student Workload

	Full Time	Part Time
Contact Hours	30	N/A
Non-Contact Hours	30	N/A
Placement/Work-Based Learning Experience [Notional] Hours	240	N/A
TOTAL	300	N/A
<i>Actual Placement hours for professional, statutory or regulatory body</i>	300	

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Type:	Coursework	Weighting:	100%	Outcomes Assessed:	1, 2, 3, 4, 5
Description:	An individual coursework incorporating the preparation of a Bill of Quantities and a Cost Plan, work to involve a critical appraisal of a work-based project.				

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

The overall module grade is based on 100% weighting of Component 1 (assignment). An overall minimum grade D is required to pass the module. Non-submission will result in an NS grade.

Module Grade	Minimum Requirements to achieve Module Grade:
A	A
B	B
C	C
D	D
E	E
F	F
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements

Prerequisites for Module	None.
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

- 1 ASHWORTH, A Perera S., 2015 Cost Studies of Buildings
- 2 LEE, S., 2011; Willis Elements of Quantity Surveying, 13th Ed Oxford: Blackwell Science
- 3 PACKER, A.D 2016 Building Measurement. Harlow: Longman
- 4 Packer, A., (2016) Building measurement : new rules of measurement. 2nd edition , Taylor and Francis
- 5 SMITH J, 2007. Building Cost Planning for the Design Team. 2nd Edition Oxford: Butterworth- Heinemann
- 6 Building Cost Planning for the Design Team (2016). Property management, Vol.34 (4), p.358-359. Emerald Group Publishing Limited