Liverpool John Moores University

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Title: TENDERING AND ESTIMATING

Status: Definitive

Code: **4512BEFD** (108451)

Version Start Date: 01-08-2011

Owning School/Faculty: Built Environment

Teaching School/Faculty: Liverpool Community College

Team	Leader
Derek King	Υ

Academic Credit Total

Level: FHEQ4 Value: 12.00 Delivered 64.00

56

Hours:

Total Private Learning 120 Study:

Hours:

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	42.000
Tutorial	12.000
Workshop	7.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Open book controlled assignment under exam conditions	50.0	3.00
Portfolio	AS2	Project based assignmnet	50.0	

Aims

To provide the student with a fundamental understanding of the principles and procedures of estimating and the procedures associated with the tendering process. To develop an awareness of the generic principles of tendering and estimating for the non-domestic construction sector but will allow them to develop and demonstrate

a detailed knowledge of how these procedures apply to the commercial Building Services Engineering Industry.

Learning Outcomes

After completing the module the student should be able to:

- 1 Identify the pre-tender information required for construction and building services engineering tenders.
- 2 Build up an estimate for a building services engineering project using appropriate principles and procedures.
- Produce an estimate for a building services engineering project using appropriate methods of pricing.
- 4 Explore different tendering procedures and contractual arrangements commonly used in building services engineering projects.

Learning Outcomes of Assessments

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

EXAM 1 2 3 4
PROJECT 1 2 3 4

Outline Syllabus

Examination of tendering information: consideration of the types of client, their objective and the constraints imposed; identification of the range of contract documentation required.

Building up an estimate: prime costs, labour and plant rates, materials costs, terms of supply, material handling costs, allowance for wastage and conversion, method statements and their effect on estimating, use of standard reference documents, use of company data, documentation, software or procedures, examination of rules within methods of measurement appropriate to Building Services Engineering. Commercial and operational considerations: formulation of final estimate and tender price, inclusion of appropriate preliminaries, on-costs and overheads, inclusion of all Bill of Quantities items, costs associated with the health and safety plan, commercial factors, risks and awareness of factors which might affect profit margin. Use of standard or company data, documentation, procedures or software. Tender Preparation: examination of the decision to tender, contract risk management, procedures and strategies for tender preparation, types of contract commonly used for commercial building services engineering projects, types of commercial tendering procedures, procedures used to formulate select lists, procedures used in receiving and opening tenders, PFI and DBFO schemes and their operation.

Learning Activities

Lectures, tutorials, case studies.

References

Course Material	Book
Author	Langdon, D.
Publishing Year	2005
Title	Spon's Mechanical and Electrical Services Price Book
	2006
Subtitle	
Edition	
Publisher	Taylor & Francis
ISBN	0415370396

Course Material	Book
Author	H.V.C.A.
Publishing Year	1990
Title	Guide to Estimating
Subtitle	
Edition	
Publisher	Heating and Ventilating Contractors Association
ISBN	

Course Material	Book
Author	Brook, M.
Publishing Year	2004
Title	Estimating and Tendering for Construction Work
Subtitle	
Edition	3rd Edition
Publisher	Butterworth Heinemann
ISBN	0750658649

Notes

This module takes the established principles and practices of tendering and estimating within the construction sector and interprets them from the perspective of the commercial building services engineering industry. The module is delivered via realistic full size building services projects.