

Liverpool John Moores University

Title: BUILDING SERVICES MANAGEMENT PRINCIPLES AND APPLICATIONS
Status: Definitive
Code: **4503BEFD** (108441)
Version Start Date: 01-08-2011
Owning School/Faculty: Built Environment
Teaching School/Faculty: Liverpool Community College

Team	Leader
Derek King	Y

Academic Level: FHEQ4 **Credit Value:** 12.00 **Total Delivered Hours:** 18.00
Total Learning Hours: 120 **Private Study:** 102

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	12.000
Tutorial	6.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Assignment: a case study report based on the work-based experience of the students.	100.0	

Aims

To introduce the student to the principles of management and a study of the application of those principles within the context of the technical and professional roles within the Building Services sector via their employment/work experience. Students will gain an understanding of management principles and their relevance to the processes of Building Services design and the management of Building Services activities within the wider context of the construction industry.

Learning Outcomes

After completing the module the student should be able to:

- 1 Discuss the principles of management of processes and human resources.
- 2 Explain the relationship of the Building Services Sector within the construction design and management team, the activities and roles of the professions and the management structures appropriate to organisations within the industry.
- 3 Describe methods of procurement and contracting and their implications for the Building Services sector within the wider construction industry.
- 4 Discuss the application of management techniques in the design, pre-contract planning and construction phases of a building services project.

Learning Outcomes of Assessments

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

report	1	2	3	4
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Outline Syllabus

Principles of Management: work of founders of management thinking and evolution of management principles, principles and processes of management within the context of building services and construction projects. Management of human resources.

Project teams and organisational structures: Structures for project teams, the relationship of Building services within the construction industry and the role of the professions that form project teams. Organisational structures, strategies, missions and objectives. Team structures and team working. Influence of scale of contracts and method of procurement on the way an organization/project is managed.

Application of Management Techniques: project organization and planning, layout and accommodation, method statements and plan of work, CDM Safety Plan and risk assessments. Use of charts, critical path and other manual or computer based planning methods. Use of budget and cost control methods. Procurement, scheduling and control of materials and plant, waste management. Scheduling, resourcing, utilisation of sub-contract and direct labour. Control of quality, management of liabilities and risks. Information verification and control, site meetings communications and reporting, client liaison.

Learning Activities

Lectures and tutorials.

References

Course Material	Book
Author	Parsloe, C. & Wild, L.G.
Publishing Year	1998
Title	Project Management Handbook for Building Services
Subtitle	
Edition	
Publisher	BSRIA
ISBN	086022502X

Course Material	Book
Author	Ashworth, A. & Willis, J.
Publishing Year	2002
Title	Pre-contract Studies Development Economics, Tendering and Estimating
Subtitle	
Edition	
Publisher	Blackwell Science (UK)
ISBN	0632064722

Course Material	Book
Author	Cook, B. & Williams, P.
Publishing Year	2004
Title	Construction Planning, Programming and Control
Subtitle	
Edition	2nd Edition
Publisher	Blackwell Publishing
ISBN	1406121483

Course Material	Book
Author	Wild, J.
Publishing Year	1997
Title	Site Management of Building Services Contractors
Subtitle	
Edition	
Publisher	Spon Press
ISBN	0419204504

Course Material	Book
Author	Lavendar, S.C.
Publishing Year	1996
Title	Management of the Construction Industry
Subtitle	
Edition	
Publisher	Longman
ISBN	0582262356

Notes

The assessment of this module is via a case study conducted in the student's employment or work placement. Students will be given a formal introduction to the module, which will outline the fundamental principles involved and provide the students with detailed guidance on the requirements of the assessment process and how to successfully achieve the unit via a workplace project. The student in all cases should have a nominated workplace mentor or supervisor. The mentor must be familiar with the programme and modules and will be required to authenticate the work as being the learner's own work. The tutor, the learner and the mentor should liaise to provide support and guidance and to verify the suitability of work-based evidence. Assessment of this unit will start in the first year of the programme.