

## Liverpool John Moores University

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Title: SUPPLY CHAIN MANAGEMENT  
Status: Definitive  
Code: **5013BEFD** (108477)  
Version Start Date: 01-08-2011

Owning School/Faculty: Built Environment  
Teaching School/Faculty: Liverpool Community College

Team	Leader
Derek King	Y

**Academic Level:** FHEQ5  
**Credit Value:** 12.00  
**Total Delivered Hours:** 57.00  
**Total Learning Hours:** 120  
**Private Study:** 63

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	42.000
Tutorial	12.000

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Formal	60.0	3.00
Portfolio	AS2	Assignments	40.0	

### Aims

*To provide the student with an introduction to supply chain management within the construction industry in general and the Building Engineering Services sector in particular.*

*To identify the roles and responsibilities of manufacturers, material and component suppliers, direct and nominated subcontractors and the companies that are directly employed by the client.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Analyse the functions and effects of the various types of supply chain management organisational arrangements used within the construction and building services engineering process.
- 2 Discuss the issues and implications associated with the size of and scope of subcontractors, material suppliers and component manufacturers, trends in new production technologies and in the management and organisation of construction works.
- 3 Evaluate the different kinds of supply chain management arrangements.
- 4 Analyse the procurement and contractual implications of the main contractor using the different forms of subcontract.
- 5 Analyse the work of the main contractor in respect of supply chain management, determining methods of planning, purchasing, programming, progressing and payments.

## Learning Outcomes of Assessments

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

EXAM	1	2	3	4	5
ASSIGNMENTS	1	2	3	4	5

## Outline Syllabus

*Types of supply chain management organisation: contractor employed subcontractors, specialist subcontractors, nominated subcontractors, named subcontractors, labour only, artists and tradesmen, suppliers, manufacturers, prime cost sums.*

*Classification: by activities and functions, types of organisations, work carried out, specialisation, trends and developments in practice, effects such as efficiency, effectiveness and economy of the construction process.*

*Suppliers and component manufacturers: subcontractors: types and functions, specialist and non-specialist firms, suppliers, size, scope, types, products, goods, materials, components, availability of raw materials, labour only firms*  
*Off-site manufacture: products, trends, development, innovation; work on site, effects of off-site manufacture, assembly on-site, quality, precision*  
*Skill requirements: labour needs, materials handling and equipment, training and development, research and innovation practices.*

*Different kinds of suppliers: nominated and named subcontractors, contractor employed subcontractors, labour only firms, directly employed firms on behalf of the employer, suppliers: nominated, named, direct, builder's merchants*

*Procurement methods and arrangements: contractual conditions, tendering*

*arrangements, main contract implications, forms and agreements, intentions of parties, commencement and completion, control of the works, payments, insurance, determination.*

*Planning: programming, progressing and control, work packages.*

*Legal requirements: and responsibilities, within the contract and at common law.*

*Planning: incorporation of supply chain management within the contractor's overall contract programme, preplanning, short term planning, stages in the planning process, value chains and their importance in the construction process.*

*Purchasing: selection, orders, specification, quality, goods received, standards, ownership of goods and materials, maintenance.*

*Programming: techniques used, bar charts, linked bar charts, network analysis, precedence diagrams, line of balance, co-ordination of firms on site.*

*Progressing: review, recording against the programme, delays, interim payments, cash and trade discounts, retention, final payments, set-off, provisions in the main and subcontract conditions.*

## Learning Activities

Formal lectures and tutorials are supplemented with case studies.

## References

<b>Course Material</b>	Book
<b>Author</b>	Lee, S., Trench, W. & Willis, A.J.
<b>Publishing Year</b>	2005
<b>Title</b>	Elements of Quantity Surveying
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Blackwell Publishing
<b>ISBN</b>	1405125632

<b>Course Material</b>	Book
<b>Author</b>	Murray, G.
<b>Publishing Year</b>	1998
<b>Title</b>	Measurement of Building Services
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Palgrave Macmillan
<b>ISBN</b>	0333675932

<b>Course Material</b>	Book
<b>Author</b>	RICS
<b>Publishing Year</b>	1988

<b>Title</b>	SMM7
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	RICS
<b>ISBN</b>	0854063609

<b>Course Material</b>	Book
<b>Author</b>	RICS
<b>Publishing Year</b>	1988
<b>Title</b>	Standard Method of Measurement 7 Measurement Code
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	RICS
<b>ISBN</b>	0854063617

<b>Course Material</b>	Book
<b>Author</b>	Seeley, I.
<b>Publishing Year</b>	1998
<b>Title</b>	Building Quantities Explained
<b>Subtitle</b>	
<b>Edition</b>	5th Edition
<b>Publisher</b>	Palgrave Macmillan
<b>ISBN</b>	0333719727

<b>Course Material</b>	Book
<b>Author</b>	Ashworth, A.
<b>Publishing Year</b>	1996
<b>Title</b>	Pre-Contract Studies
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Longman
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Ashworth, A.
<b>Publishing Year</b>	1998
<b>Title</b>	Contract Administration
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Longman
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Jaggar, D.M. & Ross, A.D.
<b>Publishing Year</b>	2002
<b>Title</b>	Building Design Cost Management
<b>Subtitle</b>	

<b>Edition</b>	
<b>Publisher</b>	Blackwell
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Allott, T.
<b>Publishing Year</b>	1998
<b>Title</b>	Common Arrangement of Work Sections for Building Works
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Co-ordinating Committee for Project Information
<b>ISBN</b>	0951266233

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

## Notes

This module is a key component for those students wishing to complete the programme following a 'commercial' building services pathway. It develops the students' depth of understanding of control of the costs and risk management of the supply chain during a building services construction process.