

Liverpool John Moores University

Title: SUPPLY CHAIN MANAGEMENT
Status: Definitive
Code: **7048BEPG** (102569)
Version Start Date: 01-08-2011

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

Team	Leader
Dianne Marsh	Y
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Academic Level: FHEQ7 **Credit Value:** 20.00 **Total Delivered Hours:** 51.00
Total Learning Hours: 200 **Private Study:** 149

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	48.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	choice of questions	50.0	3.00
Report	AS2	assignment	50.0	

Aims

To equip the student with a thorough understanding of the nature and operation of the construction supply chain, both traditional and modern variants, and the frameworks within which project participants work taking into consideration appropriate risk and value management regimes.

Learning Outcomes

After completing the module the student should be able to:

- 1 Critically analyse current practices of risk and value management and apply appropriate practices and procedures for the effective management of risk and value during the project life cycle.
- 2 Analyse the construction supply chain and evaluate the roles of the parties and their contractual relationships under traditional and non traditional variants, during the procurement process.
- 3 Evaluate modern methods of management used to facilitate the success of supply chain integration.

Learning Outcomes of Assessments

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

EXAM	2		
REPORT	1	2	3

Outline Syllabus

The construction supply chain, definitions, traditional and new approaches. The management of the design and construction process, plans of work and their impact on work package design. procurement systems and contracts. Partnering, defining client requirements, project goals and objectives, partnering charters and contractual arrangements, forms of contract for partnering; Developing strategic liaisons and long-term relationships; Capital procurement programmes, ProCure21; Service-level agreements; Types of contract, lump sum, re-measurement, prime cost and target contracts, pain/gain arrangements. Supply chain integration, lean construction, fast tracking, just-in-time theory and practice; Lead times; Subcontract management, determining workpackage content, workpackage procurement, pre-contract liaison, post-contract control and coordination, risk transfer. Risk management strategy, risk perception and identification, risk analysis and assessment, qualitative assessment, quantitative assessment, risk response and mitigation, risk controls, monitoring and audit, risk outcomes; Responsibility for risk management, role of project manager, client; exception reporting; Role of risk manager, role of statutory bodies and legislation in controlling risk, SHE legislation; Risk and contract strategy, risk transfer, openness with suppliers, price for transfer of risk; Management of cost, time and quality risks; Safety, health and environmental risks; Statutory and contractual roles and obligations; The concept of value, definitions, reconciliation of stake holder perceptions, value through the procurement life-cycle, whole life value, measurement of value, OGC and other models Value management techniques as a tool for project control; earned value analysis. Quality management, technical and financial performance, quality planning and control, quality assessment processes and procedures; TQM, continuous performance improvement.

Learning Activities

Lectures.

References

Course Material	Book
Author	Boussabaine and Kirkham
Publishing Year	2005
Title	Whole Life Cycle Costing, Risk and Risk Responses
Subtitle	
Edition	
Publisher	Blackwell Publishing
ISBN	9781405107860

Course Material	Book
Author	Office of Government Commerce
Publishing Year	2005
Title	
Subtitle	
Edition	
Publisher	OGC
ISBN	

Course Material	Book
Author	Cain, C.T.
Publishing Year	2003
Title	Building Down Barriers: a guide to construction best practice
Subtitle	
Edition	
Publisher	Spon Press
ISBN	9780203398289

Course Material	Book
Author	London, K.
Publishing Year	2008
Title	Construction Supply Chain Economics
Subtitle	
Edition	
Publisher	Taylor and Francis
ISBN	9780415409711

Notes

The module equips the student with a critical understanding of the nature and operation of the construction supply chain embracing contractual arrangements, communication and control of design and construction supply organisations together with an appreciation of the complex relationships and legal and cultural underpinnings of the construction process.