

Liverpool John Moores University

Title: CONSTRUCTION SITE MANAGEMENT
Status: Definitive
Code: **5557BEFD** (118426)
Version Start Date: 01-08-2011

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

Team	Leader
Russell Bennett	Y

Academic Level: FHEQ5
Credit Value: 24.00
Total Delivered Hours: 72.00
Total Learning Hours: 240
Private Study: 168

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	48.000
Tutorial	24.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Report- site management practices	50.0	
Report	AS2	Report and practice -contract planning and health and safety	50.0	

Aims

The aim of the module is to introduce students to the procedures required for the successful management of construction projects from pre-tender stage until completion.

Learning Outcomes

After completing the module the student should be able to:

- 1 Evaluate current management practices applicable to site management and analyse their effectiveness.
- 2 Produce a site layout plan for a medium sized construction project.
- 3 Determine the duration of construction activities using alternative methods and put these activities into a logical sequence.
- 4 Develop and analyse precedence diagrams and use appropriate software to produce construction programmes.
- 5 Critically review the different systems used for short term programming and monitoring of construction work progress.
- 6 Prepare Risk Assessments and Health and Safety Method Statements for construction projects
- 7 Distinguish between the types of cost documentation used in construction projects.
- 8 Produce simple cost reports, cash flow projections and budget reconciliations for client and contracting organisations.

Learning Outcomes of Assessments

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

REPORT SITE	1	2	3	4
MANAGEMENT				
REPORT CONTRACT	5	6	7	8
PLANNING				

Outline Syllabus

Current management techniques applicable to the Construction Industry.
Communication methods used during the production process and the personnel and ICT involved.
Quality Control process, Environmental and Health and Safety restrictions imposed upon the Construction Industry. Risk assessments.
Pre-tender planning from a production perspective.
Pre-contract planning from a production perspective including site layout planning.
Method statements and sequencing studies.
Production and analysis of precedence diagrams.
Production of barcharts using appropriate software.
Short term programming and monitoring of work progress.
Use of the construction programme as a control mechanism for labour, materials, plant and subcontractors.
Manpower planning issues in construction.
Cost forecasting techniques, cost control methods and costs reporting methods used in the Construction Industry.

Learning Activities

Lectures, tutorials and case studies

References

Course Material	Book
Author	Ashworth, A.
Publishing Year	2005
Title	Contractual Procedures in the Construction Industry'
Subtitle	
Edition	5th Edition.
Publisher	Prentice Hall
ISBN	0131298275

Course Material	Book
Author	Cooke, B. & Williams, P.
Publishing Year	2009
Title	Construction planning, programming and control
Subtitle	
Edition	3rd Edition
Publisher	Wiley-Blackwell.
ISBN	1405183802.

Course Material	Book
Author	Harris, F. & McCaffer, R.
Publishing Year	2006
Title	Modern Construction Management
Subtitle	
Edition	6th Edition.
Publisher	Blackwell Science.
ISBN	9781405133258

Notes

This module provides an opportunity to acquire competence in applying key principles of production management to the construction process and test this using a case study approach.