

Liverpool John Moores University

Title: Applying Lean Principles to Construction Projects
Status: Definitive
Code: **7209BEPGDL** (120491)
Version Start Date: 01-08-2016

Owning School/Faculty: Liverpool Business School
Teaching School/Faculty: Liverpool Business School

Team	Leader
David Bryde	Y

Academic Level: FHEQ7 **Credit Value:** 10 **Total Delivered Hours:** 12

Total Learning Hours: 100 **Private Study:** 88

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Online	12

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	Project		100	

Aims

To investigate the rationale for applying Lean principles to construction projects and develop skills and knowledge in order to use Lean-based methods on projects.

Learning Outcomes

After completing the module the student should be able to:

- 1 Evaluate the historical development of the Lean construction movement.

- 2 Examine the characteristics of Lean-based approaches to managing construction projects.
- 3 Critically appraise the benefits and barriers to implementing Lean in construction project environments.
- 4 Apply a Lean-based approach to a specific project management situation.

Learning Outcomes of Assessments

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

Portfolio Project Based	1	2	3	4
-------------------------	---	---	---	---

Outline Syllabus

The historic evolution of the Lean philosophy
The Lean construction movement
The elements of Lean construction
Benefits and barriers
The Last Planner System®
Case studies

Learning Activities

The module will be delivered via online recorded lectures, webinars and activities. Case studies will be used as part of the activities and online discussions. This module may also have block taught option available for those that can attend.

Notes

The module provides students with an appreciation of the philosophy, principles and practices of Lean construction.