

## Liverpool John Moores University

Title: Lean Operations  
Status: Definitive  
Code: **6726SERCBM** (128249)  
Version Start Date: 01-08-2020

Owning School/Faculty: Business and Management  
Teaching School/Faculty: South Eastern Regional College

Team	Leader
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**Academic Level:** FHEQ6      **Credit Value:** 20      **Total Delivered Hours:** 46  
**Total Learning Hours:** 200      **Private Study:** 154

### Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	22
Seminar	22

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Test	In Class	Yellow Belt - Six Sigma	50	
Exam	Exam	Green Belt - Six Sigma	50	2

### Aims

- To develop students' understanding regarding the application of methodologies within business quality management.
- To introduce students to the concepts of Six Sigma and Lean and their associated tools and techniques as means to improve process performance.

## Learning Outcomes

After completing the module the student should be able to:

- 1 Identify and critically analyse business process problems and apply appropriate techniques for process improvement.
- 2 Demonstrate knowledge of Lean Six Sigma principles and tools at Yellow Belt level.
- 3 Demonstrate knowledge of Lean Six Sigma principles and tools at Green Belt level.
- 4 Critically assess resource allocation decisions using m contemporaneous management practices.

## Learning Outcomes of Assessments

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

Yellow Belt - Six Sigma	1	2
Green Belt - Six Sigma	3	4

## Outline Syllabus

- *Lean principles*
- *Lean Thinking*
- *Agile operations*
- *Mass Customisation operations*
- *Six Sigma principles*
- *Materials and Manufacturing Planning Systems (MRP & MRP II)*
- *Enterprise Resource Planning Systems (ERPs)*

## Learning Activities

Formal lectures and seminars.

## Notes

This module is part of the Operations and Technology Management pathway.