

## Liverpool John Moores University

Title: QUALITY SYSTEMS  
Status: Definitive  
Code: **6503ENGSBC** (113911)  
Version Start Date: 01-08-2018

Owning School/Faculty: Maritime and Mechanical Engineering  
Teaching School/Faculty: The Sino-British College

Team	Leader
Russell English	Y

**Academic Level:** FHEQ6  
**Credit Value:** 12  
**Total Delivered Hours:** 37  
**Total Learning Hours:** 120  
**Private Study:** 83

### Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	20
Online	5
Tutorial	10

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination	70	2
Essay	AS2	Coursework	30	

### Aims

*To apply quality systems and specific Quality Management techniques to all stages of the product life cycle.*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Apply the principles of ISO 9001:2000 Quality Standard
- 2 Understand the application of specific quality management techniques
- 3 Apply specific quality management techniques to manufacturing
- 4 Apply appropriate techniques for organizational improvement

### **Learning Outcomes of Assessments**

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

Exam	1	2	3	4
Essay	2	3		

### **Outline Syllabus**

*Introduction to Total Quality Management.*  
*The Costs of Quality.*  
*Different streams of Total Quality Management Philosophy (Quality Gurus).*  
*Introduction to the ISO Quality Management System ISO 9001:2000 – principles, components and application.*  
*Application of quality management techniques in design, development and manufacturing processes: QFD, FMEA, and Statistical Process Control (SPC).*  
*Quality Improvement with Six Sigma.*

### **Learning Activities**

Lectures, tutorials

### **Notes**

This module is designed to develop practical skills in the application of quality system and techniques in manufacturing enterprises.