

## Liverpool John Moores University

Title: Health, Safety and Environmental (HSE) Management Systems  
Status: Definitive  
Code: **7537ENGRSK** (118837)  
Version Start Date: 01-08-2019

Owning School/Faculty: Engineering  
Teaching School/Faculty: Risktec Solutions

Team	Leader
Alan Wall	

**Academic Level:** FHEQ7      **Credit Value:** 10      **Total Delivered Hours:** 16.5

**Total Learning Hours:** 100      **Private Study:** 83.5

### Delivery Options

Course typically offered: Runs Twice - S1 & S2

Component	Contact Hours
Lecture	10
Online	.5
Tutorial	6

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	An essay question to analyse the failures of HSE Management Systems in major accidents in various industries and countries, up to 2,000 words long.	55	
Essay	AS2	An essay question to discuss the reasons for differences in the development and effectiveness of management systems, up to 2,000 words long.	45	

### Aims

*Aims:*

*To enable students to:*

- \* Understand HSE Management Systems and the differences in approach taken in different hazardous industries*
- \* Devise documentation for key aspects of an HSE Management System.*
- \* Examine the challenges and issues affecting the implementation of an effective HSE management system.*

## **Learning Outcomes**

After completing the module the student should be able to:

- 1 Discuss the methodology and requirements for developing a Management System
- 2 Critically analyse the effects of effective HSE Management Systems in reducing the probability and consequences of major accidents
- 3 Critically analyse issues associated with the implementation of HSE Management Systems

## **Learning Outcomes of Assessments**

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

accident essay	1	2
management systems	3	

## **Outline Syllabus**

*Definition of a HSE MS*

*Elements of a HSE MS*

- Policy/ Objectives*
  - Organisation*
  - Plan and Set Standards*
  - Documents (inc. procedures, work instructions etc.)*
  - Hazard Management*
  - Management of Change*
  - Training and Competency (more detail in Competency Management, Culture and Behaviours module)*
  - Measure Performance (more detail in Engineered Risk Control Systems and Performance module)*
  - Audit and Review (more detail in Performance Monitoring, Auditing and Management Review module)*
- Guidance and Legislation*
- Implementation Aspects*
- Training*
  - Integration with quality systems*

- *Facilitating organisational change*  
*Documenting and implementing the HSE MS*
- *Manuals, procedures and systems*
- *Intranet/ CD based HSE MS*

## **Learning Activities**

A combination of lectures, exercises during the taught session, and supported self study.

## **Notes**

The aim of this module is to deliver an understanding of what constitutes a Health, Safety & Environment Management System (HSE MS), and how these systems are applied in different hazardous industries. Legislative requirements for an HSE MS are also examined. The module examines issues associated with the documentation and implementation of an HSE MS.

The assessment for this module is through an essay.