

## Liverpool John Moores University

Title: Safety/HSE Cases  
Status: Definitive  
Code: **7574RTC** (120407)  
Version Start Date: 01-08-2019

Owning School/Faculty: Maritime and Mechanical Engineering  
Teaching School/Faculty: Risktec Solutions

Team	Leader
Alan Wall	Y

**Academic Level:** FHEQ7      **Credit Value:** 10      **Total Delivered Hours:** 16.5  
**Total Learning Hours:** 100      **Private Study:** 83.5

### Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	8
Online	.5
Tutorial	8

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	An essay question comprising several component parts, based around a case study, up to 4,000 words long.	95	
Test	AS2	Individual and group activities e. g. quiz, forum	5	

### Aims

*To illustrate the purpose of a Safety / HSE Case and to develop an understanding of typical safety case contents and structure.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Critically review the reasons for having Safety/HSE Cases in regulatory and non-regulatory environments
- 2 Analyse the role of the safety/HSE Case in safety/HSE management
- 3 Design the contents of a case
- 4 Devise a plan for the production of a safety/HSE Cases
- 5 Understand the features which ensure that a safety case is fit for purpose.

## Learning Outcomes of Assessments

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

4000 word essay	2	3	4	5
Individual and group work	1			

## Outline Syllabus

*What is a safety case?*

*Legal, industry and company requirements*

*Approach in different industries*

*Common features*

*What does a safety case look like?*

*Structure and contents*

*Supporting studies*

*Planning*

*Safety cases through the project lifecycle*

*Safety case tools and techniques*

*Risk assessment process and reporting*

*Risk analysis*

*Comparison with risk criteria*

*Control barrier analysis*

*Human factors in safety cases*

*Safety case outputs*

*Safe operating envelopes*

*Other outputs*

*Communication*

*Demonstrating ALARP*

*Getting it right*

*Attributes of a good safety case*

*Maintaining the safety case*

*Bibliography, sources of further study and common abbreviations*

*Module conclusions and close out*

## Learning Activities

A combination of lectures, exercises and supported self study.

## **Notes**

The aim of this module is to explain the purpose, content and uses of a Safety / HSE Case. Particular attention is focused on the best practical approaches to address, legal, industry and company requirements.

The differing types of safety/HSE case during the project lifecycle are discussed, as well as differences in approaches between industries. Links between the case supporting studies and the management system are studied. Best practices for implementing and maintaining the case are also reviewed.

Assessment is in the form of an essay combined with activities (e.g. exercises, discussions, etc.). The delivery modes for the module elements are explained below.

Lecture (using slides and notes): will be delivered by classroom based teacher (face to face) or online self-study (distance learning) or mixture of the two (blended learning).

Tutorial/Activities (exercises and reviews): will be delivered by classroom based teacher (face to face) or online activities with teacher feedback/virtual classroom (distance learning) or mixture of the two (blended learning).

Tutor supported online: will be delivered by email support prior to assessment submission (face to face) or tutor feedback activities, virtual classrooms and email support (distance learning) or mixture of the two (blended learning).