

## Liverpool John Moores University

Title: HAZARD ASSESSMENT  
Status: Definitive  
Code: **7520ENGRSK** (113885)  
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	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	100	

### Aims

*To provide a solid foundation of knowledge of risk assessment tools, with an emphasis on the concept of risk and also on qualitative risk assessment techniques.*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Logically deduce the most appropriate risk assessment tool / technique to be used, depending on the circumstances
- 2 Apply certain risk assessment techniques
- 3 Critically review example risk assessments, illustrating strengths and weaknesses.

### **Learning Outcomes of Assessments**

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

case study	1	2	3
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### **Outline Syllabus**

*1. Introduction to risk assessment*

*Hazard Assessment*

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*2. Identifying and recording hazards – registers, schedules, inventories*

*3. The risk assessment matrix*

*4. Hazard assessment and risk reduction through the project/facility lifecycle*

*5. Qualitative hazard assessment techniques*

*6. Significance of environmental aspects – environmental hazard assessment*

*7. Health Risk Assessment (HRA)*

*8. Security risk assessment*

*9. Business / commercial risk assessment*

*10. Quantitative risk assessment techniques*

*11. External hazards*

*12. Good practice in hazard assessment*

### **Learning Activities**

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

### **Notes**

The aim of this module is to provide risk assessment definitions and build upon the risk management process defined in the previous module – Introduction to Practical Risk Management. The module delivers a critical review of certain well established and well recognised qualitative risk assessment tools and also introduces some quantitative techniques (which are the subject of separate, more detailed, analysis in dedicated modules). The assessment for the module is an essay.