

Liverpool John Moores University

Title: HAZARD IDENTIFICATION
Status: Definitive
Code: **7521ENGRSK** (113886)
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
Total Learning Hours: 100 **Private Study:** 84

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	8
Tutorial	8

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Coursework Case Study Approx 2000-3000 words	100	

Aims

To provide an understanding and awareness of the tools and techniques available for hazard identification, where they can be applied and what limitations may exist.

Learning Outcomes

After completing the module the student should be able to:

- 1 Contrast the terms "hazard", "consequence" and "risk"
- 2 Critically review the tools and techniques available to carry out effective hazard identification
- 3 Design a fit for purpose hazard identification study across a range of industries and lifecycle stages.

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

Introduction

- * *Definitions*
- * *Module overview*

HAZID

- * *The HAZID team*
- * *The HAZID process*
- * *Example HAZID checklists*
- * *Recording the HAZID (the Hazard Register / Fault Schedule / Hazard Log)*
- * *Raising effective corrective actions*

Introduction to other hazard identification techniques

- * *HAZOP (more detail in RSKIAM010)*
- * *Failure Modes and Effects Analysis (FMEA)*
- * *Plant walkdowns / audits*
- * *What If? Analysis*
- * *Task analysis / Job Hazard Analysis (JHA) (more detail in RSKMSM002)*

Hazard identification through the project / facility life cycle

Module conclusions and close out

Learning Activities

A combination of brief lectures and hands on group exercises.

Notes

The module aims to provide an understanding and awareness of the tools and techniques available for hazard identification, where they can be applied and what limitations may exist. Students will be introduced to the concept of HAZID, including the HAZID team and process. Other hazard identification techniques will be introduced, but these are explained in greater detail in related modules. The assessment for this module will comprise a case study.