

## Module Information

2022.01, Approved

### Summary Information

Module Code	7504MSIDL
Formal Module Title	Maritime and Offshore Safety Analysis
Owning School	Engineering
Career	Postgraduate Taught
Credits	20
Academic level	FHEQ Level 7
Grading Schema	50

### Teaching Responsibility

LJMU Schools involved in Delivery
Engineering

### Learning Methods

Learning Method Type	Hours
Lecture	24
Online	2
Tutorial	10

### Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
APR-CTY	CTY	April	12 Weeks
JAN-CTY	CTY	January	12 Weeks
SEP-CTY	CTY	September	12 Weeks

### Aims and Outcomes

Aims	To enable students to understand and implement the requirements of formal safety design, assessment and review in marine, offshore and port areas.
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**After completing the module the student should be able to:**

### Learning Outcomes

Code	Number	Description
MLO1	1	Demonstrate the analyses required for safety evaluation from both design and operational aspects within the marine and offshore engineering environment.
MLO2	2	Balance the requirements of design for safety and management of safety in the marine environment.
MLO3	3	Specify how safety may be controlled within the marine and offshore engineering environment.
MLO4	4	Develop a formal safety assessment on both a qualitative and quantitative basis that can be applied within the context of marine and offshore engineering.

### Module Content

Outline Syllabus	Introduction to safety and risk.Risk and safety regulations in marine engineering.Hazard identification techniques.Consequence analysis.Safety and risk evaluation.Human factors and safety management.Risk reduction and criteria.Novel risk modelling and decision making techniques.Marine and offshore case studies.
Module Overview	
Additional Information	The module is designed to provide the underpinning knowledge and understanding to implement formal maritime safety assessment procedures.The module is delivered via distance learning, described as follows:Lecture: Slides and slide notes for self-study.Tutorial: Online activities and exercises with teacher feedback. Virtual classrooms.Email support.Online: summative tests.

### Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Essay	Essay	95	0	MLO1, MLO2, MLO3, MLO4
Test	Test Safety Analysis	5	0	MLO1, MLO2

### Module Contacts

#### Module Leader

Contact Name	Applies to all offerings	Offerings
Ben Matellini	Yes	N/A

#### Partner Module Team

Contact Name	Applies to all offerings	Offerings
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