

Liverpool John Moores University

Title: RISK REDUCTION AND ALARP
Status: Definitive
Code: **7504RSKDL** (118764)
Version Start Date: 01-08-2019

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

Team	Leader
Zaili Yang	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: 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	Essay		95	
Reflection	test&refl		5	

Aims

To enable students to assess the driving forces behind different options available for risk reduction and to apply the ALARP concept to evaluating the practicability of additional risk reduction measures

Learning Outcomes

After completing the module the student should be able to:

- 1 Identify different options available for risk reduction (control hierarchy)
- 2 Decide on when risk reduction measures can best be used
- 3 Describe the concepts of "tolerability of risk" and "As Low As Reasonably Practicable (ALARP)"
- 4 Apply the ALARP concept and conduct an ALARP assessment to an appropriate level of detail

Learning Outcomes of Assessments

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

Essay	2	3	4
Online test & reflection	1		

Outline Syllabus

1. *Risk Management Summary*
2. *Hierarchy of Risk Reduction Measures*
3. *Risk Reduction Through the Lifecycle*
4. *ALARP Concept*
5. *Demonstrating ALARP*
6. *Qualitative and Semi-Quantitative Approaches*
7. *Cost Benefit Analysis*
8. *Societal Risk*

Learning Activities

A combination of slides and notes, exercises, discussions, interactive web activities and supported self study.

Notes

The purpose of this module is to enable students to understand the hierarchy of risk reduction measures and the options for risk reduction in the project lifecycle. Students will be introduced to the concept of ALARP and how to demonstrate that risk is reduced to ALARP levels.

The assessment for this module is a combination of essay and online activities (e.g. tests, discussions, etc.).