Liverpool John Moores University

Title:	Risk Reduction and ALARP
Status:	Definitive
Code:	**7095RTC** (127361)
Version Start Date:	01-08-2021
Owning School/Faculty:	Engineering
Teaching School/Faculty:	Engineering

Team	Leader
Ben Matellini	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: 50 %

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 2,500 words long.	95	
Test	AS2	Individual and group activities eg. test, discussion.	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.
2	Decide 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
Test	1		

Outline Syllabus

Risk Management Summary
Hierarchy of Risk Reduction Measures
Risk Reduction Through the Lifecycle
ALARP Concept
Demonstrating ALARP
Qualitative and Semi-Quantitative Approaches
Cost Benefit Analysis
Societal Risk

Learning Activities

A combination of lectures, exercises 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, practise applying it and learn how to demonstrate that risk is reduced to ALARP levels.

Assessment is in the form of an essay combined with activities (e.g. exercises, discussions, etc.).
The module is delivered by a combination of face-to-face and online delivery, described as follows:
Lecture: face-to-face workshop sessions

Tutorial/Activities (Exercises and reviews): Online activities with teacher feedback, and virtual classrooms
Tutor-supported Online: Tutor feedback for activities, virtual classrooms and email support.