Liverpool John Moores University

Title:	Risk Reduction and ALARP
Status:	Definitive
Code:	**7573RTC** (120406)
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:**	16.5
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: 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.	95	
Test	AS2	Individual and group activities e. g. quiz, forum.	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 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:

4000 word essay	2	3	4
Individual and group work	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

ALARP (As Low As Reasonably Practible) is a commonly used but often misunderstood concept. 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 has been reduced to ALARP levels.

Assessment is in the form of an essay combined with activities (e.g. exercises, discussions, etc.). The delivery modes for the module elements are explained below.

Lecture (using slides and notes): will be delivered by classroom based teacher (face to face) or online self-study (distance learning) or mixture of the two (blended learning).

Tutorial/Activities (exercises and reviews): will be delivered by classroom based teacher (face to face) or online activities with teacher feedback/virtual classroom (distance learning) or mixture of the two (blended learning).

Tutor supported online: will be delivered by email support prior to assessment submission (face to face) or tutor feedback activities, virtual classrooms and email support (distance learning) or mixture of the two (blended learning).