Risk Reduction and ALARP

Module Information

2022.01, Approved

Summary Information

Module Code	7095RTC
Formal Module Title	Risk Reduction and ALARP
Owning School	Engineering
Career	Postgraduate Taught
Credits	10
Academic level	FHEQ Level 7
Grading Schema	50

Teaching Responsibility

LJMU Schools involved in Delivery
Engineering

Learning Methods

Learning Method Type	Hours
Lecture	8
Online	1
Tutorial	8

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-PAR	PAR	September	12 Weeks

Aims and Outcomes

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.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Identify different options available for risk reduction.
MLO2	2	Decide when risk reduction measures can best be used.
MLO3	3	Describe the concepts of "tolerability of risk" and "As Low As Reasonably Practicable (ALARP)"
MLO4	4	Apply the ALARP concept and conduct an ALARP assessment to an appropriate level of detail.

Module Content

Outline Syllabus	Risk Management SummaryHierarchy of Risk Reduction MeasuresRisk Reduction Through the LifecycleALARP ConceptDemonstrating ALARPQualitative and Semi-Quantitative ApproachesCost Benefit AnalysisSocietal Risk
Module Overview	
Additional Information	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 sessionsTutorial/Activities (Exercises and reviews): Online activities with teacher feedback, and virtual classrooms Tutor-supported Online: Tutor feedback for activities, virtual classrooms and email support.In this module, the knowledge learning outcomes are K1, K2, the skills learning outcomes are S1, S2, S5 and the behaviours learning outcomes are B1, B2, B3 and B4.

Assessments

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

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