

Safety/HSE Cases

Module Information

2022.01, Approved

Summary Information

Module Code	7596RTC
Formal Module Title	Safety/HSE Cases
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
APR-PAR	PAR	April	12 Weeks

Aims and Outcomes

Aims	To illustrate the purpose of a Safety / HSE Case and to develop an understanding of typical safety case contents and structure.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Critically review the reasons for having Safety/HSE Cases and the role of the safety/HSE Case
MLO2	2	Justify the contents of a safety case
MLO3	3	Discuss the key factors to be considered when planning a safety case.

Module Content

Outline Syllabus	<p>Historical drivers Legal Requirements - UK, Europe, worldwide Company and industry body requirements Differing types of case by project phase (e.g. PSR, PCSR, design, operational, decommissioning) Safety/HSE Case structure and approach by industry-nuclear-offshore oil and gas-onshore process-transport-others Bridging documents Links between the case and supporting studies Links between the case and the management system Documentation and management / maintenance of the Safety / HSE Case Roll-out and implementation - keeping the case as a working document Features of a fit-for-purpose safety case Bibliography, sources of further study and common abbreviations Module conclusions and close out</p>
Module Overview	
Additional Information	<p>The aim of this module is to explain the purpose of a Safety / HSE Case and provide an understanding of the case content and structure. This includes historical drivers, legal requirements and company and industry body requirements. The differing types of safety / HSE case and different industry approaches are discussed. Links between the case and supporting studies and between the case and the management system are studied. Documentation, maintenance, roll-out and implementation are also reviewed. Assessment is in the form of an essay combined with activities (e.g. exercises, discussions, etc.).</p> <p>The module is delivered via distance learning, described as follows: Lecture (using slides and slide notes): Online self-study 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.</p> <p>Relevant subject benchmark statement(s) and other external reference points used to inform programme outcomes: The QAA does not currently offer any SBS for risk and safety management. The Engineering (MEng) benchmark statements do not address risk. The Risktec teachers and module leader are practising industry consultants, imparting knowledge which is both relevant and up-to-date, and incorporating that knowledge into the module materials. This maintains the relevance of the module. The module captures best practice guidance for safety cases issued by regulatory and industry bodies, including the UK Health and Safety Executive (HSE), the UK Office for Nuclear Regulation (ONR), Ministry of Defence (MoD), Office for Rail Regulation (ORR) and the International Association of Drilling Contractors (IADC).</p> <p>Mode and duration of study: Distance Learning for 8 weeks. Criteria for admission to the programme: Students must meet at least one of the following criteria: • An undergraduate degree or equivalent in science, engineering, business management, or related studies, or • Be an industry professional with 5+ years industry experience, with some exposure to risk management tools and techniques, or • Be a mature student with qualifications and experience who in the opinion of the programme team will be able to successfully complete the programme, or • An appropriate combination of undergraduate degree (or academic equivalent) and industry experience at the discretion of the Programme Leader.</p> <p>The entry criterion for English language ability is possession of one of the following qualifications: • IELTS 6.5, or • TOEFL 560 Paper Based/220 Computer Based/ 83 Internet, or • Cambridge examination Board: Advance Certificate of English, grade C or above.</p> <p>Applicants who have studied and successfully achieved a UK degree, or a degree from an English speaking country, are exempt from the requirements to produce evidence of competence in English. Any applicant to the programme who does not match the above English language criteria will be given an interview (by telephone if face to face is not practical) to ascertain their knowledge, skills and experience in relation to the programme requirements. If a student who has been accepted onto the programme subsequently displays difficulty with the technical content and/or English language, support will be provided. In the first instance the module teacher, Project Manager or Programme Leader will discuss the issue with the student (in confidence) and advice would be given to the student. If the problem persists, the Project Manager and/or Programme Leader will discuss options with the student and, where a student has been placed on the programme by their employer, with the employer (with the student's permission), and the appropriate course of action for the remainder of the programme will be agreed jointly.</p> <p>Name of the final award: CPD in Safety/HSE Cases Student support – brief summary: As students of LJMU, all participants of the programme have ac</p>

Assessments

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