Hazard Identification

Module Information

2022.01, Approved

Summary Information

Module Code	7584RTC
Formal Module Title	Hazard Identification
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 provide an understanding and awareness of the tools and techniques available for hazard identification, where they can be applied and what limitations may exist.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Assess the role of hazard identification in the risk management process
MLO2	2	Critically review the tools and techniques available to carry out effective hazard identification at each lifecycle stage
MLO3	3	Design a fit for purpose hazard identification study

Module Content

Outline Syllabus	Introduction – basic conceptsOverview of hazard identification techniques, e.g.:-Critical examination-Codes and Standards-Hazard indices-Concept Safety Analysis / Preliminary Hazard Review-What If?-Safety Audits-Fault / Event Trees-Sneak Analysis-Human Error / Task AnalysisHazard identification through the project lifecycleFailure Modes and Effects AnalysisHazard and Operability StudiesHAZID/Checklist approachHAZID versus HAZOPMaking recommendations
Module Overview	
Additional Information	The module aims to provide an understanding and awareness of the tools and techniques available for hazard identification, where they can be applied and what limitations may exist. Students will be introduced to the concept of HAZID, including the HAZID team and process. Other hazard identification techniques will be introduced, but these are explained in greater detail in related modules. Assessment is in the form of an essay combined with activities (e.g. exercises, discussions, etc.).The module is delivered via distance learning, described as follows:Lecture (using slides and slide notes): Online self-studyTutorial/Activities (Exercises and reviews): Online activities with teacher feedback, and virtual classroomsTutor-supported Online: Tutor feedback for activities, virtual classrooms and email support

Assessments

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

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