

Marine Technology Management

Module Information

2022.01, Approved

Summary Information

Module Code	7500MSIDL
Formal Module Title	Marine Technology Management
Owning School	Engineering
Career	Postgraduate Taught
Credits	20
Academic level	FHEQ Level 7
Grading Schema	50

Teaching Responsibility

LJMU Schools involved in Delivery
Engineering

Learning Methods

Learning Method Type	Hours
Lecture	24
Online	2
Tutorial	10

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
APR-CTY	CTY	April	12 Weeks
JAN-CTY	CTY	January	12 Weeks
SEP-CTY	CTY	September	12 Weeks

Aims and Outcomes

Aims	The aim of this module is to provide knowledge about the management of technical projects with emphasis on risk assessment, safety analysis, regulation and certification. It also considers the management of resources required for marine maintenance projects including dry-dock and retrofit.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Explain and justify the essential role and responsibilities of the marine technical superintendent as a manager in the safe and effective operation of a vessel or offshore facility.
MLO2	2	Show a critical awareness of the systems and equipment which must comply with international conventions, and the process of obtaining and maintaining certificates/certification.
MLO3	3	Critically evaluate the full range of specialist knowledge and skills which are required to support the technical operation and maintenance of a vessel or offshore facility.
MLO4	4	Consider the typical personnel needed and the qualifications and certification that they require in order to work in this field.
MLO5	5	Analyse and critically evaluate the core management and leadership skills, which are needed for managing self and others within the context of the marine technical management environment.

Module Content

Outline Syllabus	Financial viability of marine operation projects (supply and demand, time value of money, depreciation and tax, profit and loss, cost breakdown and voyage analysis and annual and discount cash flow analysis, etc.) Become aware of Marine risk and safety (accident analysis including human life loss, property loss, and environmental impact) and the notions of frequency, consequences, acceptability, ALARP, etc. Risk assessment including risk acceptance criteria, hazard identification, frequency estimation, consequences analysis, and risk reduction methodologies. Marine regulatory framework, comprising of rules and regulations covering design and operational issues of ships and offshore facilities. International sale of goods, formation of contract, performance and remedies. Marine insurance of hull, cargo and other risks, chartering, brokerage, claims. A knowledge of systems and technologies covering fundamentals of ship/offshore facility design, propulsion (ships), machinery, and operation & maintenance, including, but not limited to emission abatement equipment, ballast water treatment systems, and state-of-the-art energy efficient technologies.
Module Overview	
Additional Information	This module contributes to the development of specialist management skills required to operate in a management role such as that of a Marine Technical Superintendent. The module is delivered via distance learning, described as follows: Lecture: Slides and slide notes for self-study. Tutorial: Online activities and exercises with teacher feedback. Virtual classrooms. Email support. Online: summative tests

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Essay	Essay	95	0	MLO1, MLO2, MLO3, MLO5, MLO4
Test	Test	5	0	MLO1

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Sean Loughney	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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