

Summary Information

Module Code	7000MTS
Formal Module Title	Marine Technology Management
Owning School	Engineering
Career	Postgraduate Taught
Credits	20
Academic level	FHEQ Level 7
Grading Schema	50

Module Contacts

Module Leader

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

Module Team Member

Contact Name	Applies to all offerings	Offerings
Eduardo Blanco Davis	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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Teaching Responsibility

LJMU Schools involved in Delivery
Engineering

Learning Methods

Learning Method Type	Hours
Lecture	24
Tutorial	12

Module Offering(s)

Offering Code	Location	Start Month	Duration
SEP-CTY	CTY	September	12 Weeks
SEP_NS-CTY	CTY	September (Non-standard start date)	12 Weeks

Aims and Outcomes

Aims	The aim of this module is to provide knowledge about how vessel and offshore equipment and systems are managed. In particular the regulations, procedures and strategies that are in place to ensure the marine asset (vessel or offshore installation) is Fit for Service.
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Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	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	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	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	Consider the typical personnel needed and the qualifications and certification that they require in order to work in this field.
MLO5	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

Knowledge of safety management systems as well as internal and external auditing procedures as well as understanding the certification of compliance for vessels, and the management procedures that ensure marine structures remain in class. This includes but is not limited to study of compliance with relevant standards and adherence to regular surveys, in service, to ensure continuing compliance with the standards. Awareness 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. 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.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Report	Managing technical projects	40	0	MLO2, MLO3
Centralised Exam	Exam	60	2	MLO5, MLO1, MLO4