Liverpool John Moores University

Title: PORT & SHIP CARGO OPERATIONS
Status: Definitive
Code: **5001MAR** (105976)
Version Start Date: 01-08-2016

Owning School/Faculty: Maritime and Mechanical Engineering
Teaching School/Faculty: Maritime and Mechanical Engineering

Team	Leader
Barbara Kelly	Y

Academic Level:	FHEQ5	**Credit Value:**	24	**Total Delivered Hours:**	63
Total Learning Hours:	240	**Private Study:**	177		

Delivery Options
Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	48
Tutorial	12

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination	70	3
Essay	AS2	assignment	10	
Essay	AS3	assignment	10	
Essay	AS4	assignment	10	

Aims

To examine the operational practices of bulk cargo carriage by ship, and its movement through port.

Learning Outcomes

After completing the module the student should be able to:

1   Assess the legal restrictions in the carriage of bulk cargoes.
2   Evaluate optimum cargo deadweights.
3   Assess the legal restriction in the loading operations of bulk cargoes.
4   Be familiar with the requirements of UK Port primary and secondary legislation and codes of practice.
5   Appraise the role of cpmputers, EDI and Internet in port and cargo terminal operation.
6   Be familiar with safety issues within marine terminal operations.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

EXAM	1	2	3	4	5	6
CW	1	2				
CW	2	3				
CW	4					

Outline Syllabus

Dry bulk cargo work. Maximum deadweight calculations, damaged cargo surveys, design of bulk carriers, safe operational techniques for bulk cargoes including iron ore, coal and grain. Bulk handling systems.
Liquid cargo work. Bulk liquid transport - oil and chemicals. Vessel design, procedures and operations, handling systems, containment and pollution control. Cargo planning.

Port Operations. UK Acts of Parliament relevant to the operation of UK ports including Harbours, Docks and Piers Clauses Act 1847, Harbours Act 1964, Dangerous Vessels Act 1985, Enabling Act and By Laws. Codes of Practice including Docks regulations 1988, Dangerous Substances in Harbour Areas regs 1987 and Port Marine Safety Code 2000. Container terminal computer systems. EDI and Internet use in ports.
ISPS code and implications to ports

Learning Activities

Lectures and tutorials.

Notes

Examines 1) the detail of some of the common techniques used in the safe carriage of marine cargoes; 2) the marine handling systems of oil, chemicals and dry bulk; 3) legal and operational aspects of port operation.