

## Liverpool John Moores University

Title: Cargo and Construction  
Status: Definitive  
Code: **4551BFC** (121548)  
Version Start Date: 01-08-2020

Owning School/Faculty: Engineering  
Teaching School/Faculty: Blackpool & Fylde College

Team	Leader
Barbara Kelly	Y

**Academic Level:** FHEQ4      **Credit Value:** 20      **Total Delivered Hours:** 80  
**Total Learning Hours:** 200      **Private Study:** 120

### Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	74
Tutorial	6

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	Cargo and Construction (3500 words)	85	
Essay	AS2	Maintenance (1000 words)	15	

### Aims

*To develop your underpinning knowledge of a range of topics which will allow you to safely and efficiently carry out your duties as an Officer of the Watch onboard a merchant vessel during shipboard operations.*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Describe methods of loading, discharging and storing cargo safely.
- 2 Determine the relationship between a vessel's cargo and its construction.
- 3 Identify the significant features of a ship's structure.
- 4 Plan a shipboard maintenance operation, ensuring compliance with standard operating procedures and relevant legislation.

### **Learning Outcomes of Assessments**

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

Cargo and Construction	1	2	3
Maintenance	4		

### **Outline Syllabus**

- *Loading, discharging, securing and carriage of dry and liquid cargoes*
- *Procedures to ensure efficient cargo operations*
- *Relevant legislation including COSWP, MARPOL, and IMDG*
- *Cargo and maintenance documents used by the OOW and Chief Officer*
- *Dry Cargo calculations*
- *Tank entry procedures*
- *Ballast water management*
- *Standard Operational Procedures on deck*
- *Emergency operations on deck*
- *Standard terminology pertaining to ship construction*
- *Structural features and arrangements*
- *The salient features of various ship types*
- *The properties and safe use of maintenance equipment and materials*
- *Planning and completing maintenance operations*
- *Dry docking and survey preparation*

### **Learning Activities**

Identify various types of ships, their cargo operations and salient features  
Explore methods of loading, discharging and stowing cargo on various ships  
Describe the relationship between a vessel's cargo and its construction  
State the use of maintenance equipment and materials  
Plan and evaluate maintenance operations  
Explain the dry docking and ship's survey preparation

### **Notes**

This module will contribute to the underpinning knowledge required for progression to an Officer of the Watch professional qualification. Further information can be found within the STCW syllabus.