

Liverpool John Moores University

Title: SHIPBOARD OPERATIONS
Status: Definitive
Code: **5104NAU** (121783)
Version Start Date: 01-08-2021

Owning School/Faculty: Engineering
Teaching School/Faculty: Engineering

Team	Leader
Barbara Kelly	Y

Academic Level: FHEQ5 **Credit Value:** 20 **Total Delivered Hours:** 76
Total Learning Hours: 200 **Private Study:** 124

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	60
Tutorial	12

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination - Stability	50	2
Exam	AS2	Examination - Deck Operations	50	2

Aims

To assess the operational practices required for the efficient and safe movement of cargoes on ships.

Learning Outcomes

After completing the module the student should be able to:

- 1 Plan the safe loading, stowing and securing of cargoes and their care during carriage.
- 2 Discuss procedures for dry-docking and survey.
- 3 Asses the factors affecting trim, stability and stress.

Learning Outcomes of Assessments

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

Stability	3	
Deck Operations	1	2

Outline Syllabus

The structural requirements for vessels with respect to the handling and carriage of cargo.

Stability/stress diagrams and stress calculating equipment.

The planning and operational procedures for the stowage and securing of dry cargoes, stores and equipment.

The planning and operational procedures for handling oil, liquid and gas cargoes.

The planning and operational procedures for passenger operations.

The theories and factors affecting stability and trim.

The factors affecting stability at moderate and large angles of heel.

The procedures for dry-docking.

The preparations required for surveys.

Learning Activities

Classroom based lectures and tutorials including the use of appropriate software based programmes where possible.

Notes

This module can contribute to the underpinning knowledge required for progression to an Officer of the Watch professional qualification.