

Liverpool John Moores University

Title: CARGO WORK & PORT OPERATIONS
Status: Definitive
Code: **4017MAR** (105579)
Version Start Date: 01-01-2012

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

| Team | Leader |
|---------------|--------|
| Barbara Kelly | Y |

Academic Level: FHEQ4 **Credit Value:** 12.00 **Total Delivered Hours:** 44.00
Total Learning Hours: 120 **Private Study:** 76

Delivery Options

Course typically offered: Standard Year Long

| Component | Contact Hours |
|-----------|---------------|
| Lecture | 38.000 |
| Tutorial | 6.000 |

Grading Basis: 40 %

Assessment Details

| Category | Short Description | Description | Weighting (%) | Exam Duration |
|----------|-------------------|------------------------------------|---------------|---------------|
| Essay | AS1 | Time Constrained Coursework (2hrs) | 50.0 | |
| Essay | AS2 | Coursework | 50.0 | |

Aims

To provide a basic knowledge of different cargo types and port operations.

Learning Outcomes

After completing the module the student should be able to:

- 1 understand the principles and safe working practices for the proper loading,

- 2 stowage and carriage of dry cargoes
- 2 demonstrate safe methods of arranging for the proper loading, stowage and carriage of oil, gas and chemical cargoes
- 3 understand how to conduct a deck watch as the Cargo Watch Officer.
- 4 explain the precautions and procedures to be taken to prevent pollution of the marine environment.

Learning Outcomes of Assessments

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

| | | | | |
|----|---|---|---|---|
| CW | 1 | 2 | 3 | 4 |
| CW | 1 | 2 | | |

Outline Syllabus

Classification: Classification of cargo, ship types, properties of different cargoes.

Dry cargoes: the principles and safe working practices for the proper loading, stowage and carriage of Dry, Refrigerated, Unitised, Containerised, Ro-Ro and Bulk Cargoes:

Oil, gas and chemical cargoes: the principles and safe methods of arranging for the proper loading, stowage and carriage of Oil, Gas and Chemical Cargoes and related ballasting operations

Cargo Watch: Deck watch alongside or at anchor. Cargo handling operations in port. Understanding of Cargo plans and cargo handling equipment. know the riggings and stresses.

Pollution: the MARPOL Convention and current legislation regarding the precautions and procedures to be taken to prevent pollution of the marine environment

Learning Activities

Formal lectures and video.
Use of cargo handling packages in PC laboratory.

References

| | |
|------------------------|------------------------------------|
| Course Material | Book |
| Author | House, D.J. |
| Publishing Year | 2005 |
| Title | Cargo work for Maritime Operations |
| Subtitle | |

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|------------------|-----------------------|
| Edition | 7th ed |
| Publisher | Butterworth-Heinemann |
| ISBN | 0750665556 |

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| Course Material | Book |
| Author | Bliault, C. |
| Publishing Year | 2003 |
| Title | Cargo Stowage and Securing - A Guide to Good Practice |
| Subtitle | |
| Edition | |
| Publisher | North of England P and I Club |
| ISBN | 0954201264 |

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|------------------------|--------------------------------------|
| Course Material | Book |
| Author | Knott, J.R. |
| Publishing Year | 2002 |
| Title | Lashing and securing of deck cargoes |
| Subtitle | |
| Edition | 3rd ed |
| Publisher | Nautical Institute |
| ISBN | 1870077180 |

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|------------------------|----------------------------------|
| Course Material | Book |
| Author | Fothergill, M.G. |
| Publishing Year | 2002 |
| Title | Lumber Deck Cargo Loading manual |
| Subtitle | |
| Edition | |
| Publisher | Nautical Institute |
| ISBN | 1870077628 |

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|------------------------|--|
| Course Material | Book |
| Author | Rankin, K.S. |
| Publishing Year | 2002 |
| Title | Thomas on Stowage: The Properties and Stowage of Cargoes |
| Subtitle | |
| Edition | |
| Publisher | Brown, Son & Ferguson |
| ISBN | 0851746942 |

Notes

This module contains the basic STCW requirements for the cargo carriage of a Deck Officer