

Liverpool John Moores University

Title: Managing Transport Operations
Status: Definitive
Code: **5038MAR** (116871)
Version Start Date: 01-08-2019

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

Team	Leader
Charles Roberts	Y

Academic Level: FHEQ5 **Credit Value:** 24 **Total Delivered Hours:** 72
Total Learning Hours: 240 **Private Study:** 168

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	33
Tutorial	36

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam	Exam	60	3
Report	Rpt	Report 1	20	
Report	Rpt	Report 2	20	

Aims

To examine operational aspects of the various freight transport modes, separately and collectively, and to identify themes and issues across the modes

Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate an awareness of equipment technical and design issues affecting the freight transport industry
- 2 Show an understanding of the organisational structure of the freight transport industry
- 3 Examine issues relating to the control and management of staff within freight transport sector
- 4 Recognise and explain the contribution of the various freight transport modes within the overall transport market.
- 5 Analyse the issues affecting the carriage of different forms of cargo

Learning Outcomes of Assessments

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

Exam	1	3	5
Report 1	2		
Report 2	4		

Outline Syllabus

Road freight transport: The market for commercial road transport. Regulatory framework for domestic and international operations. Industry structure. Owner-drivers, SMEs, multimodal transport groups. Own account, hire and reward and third party. Vehicles and equipment. Construction and Use and Type Approval regulations. Factors influencing design, and design constraints. Specification and procurement of vehicles for particular applications. Maintenance standards and procedures. The roles of organisations involved with controlling standards. Control of operators and drivers. Drivers' Hours, the tachograph and the Working Time Directive. Scheduling and routeing. Road transport costs.

Rail freight transport: Characteristics of rail transport. Route network, permanent way. Track and loading gauges. Signalling and other safety systems. Track capacity and its constraints. Investment in new infrastructure. Organisational framework, with particular reference to EU Directives. Freight operations. Wagonload, trainload and intermodal traffic.

Other modes: Merchant ship types. Characteristic design features and relevance to cargoes. Dry bulk cargo. Bulk liquid cargo. General cargo. Special cargoes. The role of pipelines. Air freight. Inland waterways and canals.

Learning Activities

A programme of lectures and associated tutorials.

Notes

This module looks in some detail at the role of each of the transport modes which contribute to the overall freight transport system. In part, the module examines the modes separately, but the various themes are brought together towards the end of the module to draw out key themes about which the freight transport manager should be aware.