

Liverpool John Moores University

Title: INTERMODAL FREIGHT TRANSPORT
Status: Definitive
Code: **6021MAR** (106078)
Version Start Date: 01-08-2016

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

Team	Leader
Charles Roberts	Y

Academic Level: FHEQ6
Credit Value: 12
Total Delivered Hours: 38
Total Learning Hours: 120
Private Study: 82

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	24
Tutorial	12

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	1 x 2 hours (3 questions from 5)	60	2
Essay	AS2	1 report	20	
Essay	AS3	1 report	20	

Aims

To study the concept and practice of intermodal freight transport from the viewpoints of operators, shippers and governments, and to examine the structure of intermodal operations.

Learning Outcomes

After completing the module the student should be able to:

- 1 Show an understanding of the operation of the various forms of intermodal freight transport.
- 2 Demonstrate knowledge of the key characteristics of each transport mode in terms of its contribution to an intermodal freight system.
- 3 Analyse the effectiveness of each of the intermodal techniques from a variety of different perspectives.
- 4 Exhibit an appreciation of government policy towards the intermodal freight market
- 5 Apply the generic principles to a series of case study examples.

Learning Outcomes of Assessments

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

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

Outline Syllabus

Conceptual analysis of intermodal transport systems. Identification of different forms of intermodal transport, and their advantages and disadvantages from the perspectives of operators, shippers and governments. Organisation and management of intermodal freight systems. The landbridge concept. Road and rail transport: an overview of legislation and operating practices which impact on intermodal freight transport systems. Terminal design for efficient intermodal operation. International standards and the pressures for change. Regulation and deregulation. Competition issues. Government involvement in intermodal transport policy. Roles of subsidy and operational legislation relaxation. Case studies in intermodal freight transport. Commercial planning of intermodal freight systems. Integrating intermodal freight into existing operations. Double stack container operations. Dedicated intermodal corridors.

Learning Activities

Lectures and tutorials.

Notes

A study of the operation of intermodal freight transport systems, looking at the variety of technologies currently in use and their contribution to the freight market. The

module also examines operators', shippers' and government views on the effectiveness of intermodal through transport systems.