

# WM9E3-15 Transport Techniques and Management

**22/23**

**Department**

WMG

**Level**

Taught Postgraduate Level

**Module leader**

Nishal Samarasekera

**Credit value**

15

**Module duration**

1 week

**Assessment**

Multiple

**Study location**

University of Warwick main campus, Coventry

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## Description

### Introductory description

The Transportation Techniques and Management module explores the integration of freight transportation in logistics & supply chain management through the different freight transport modes, operations, technologies and the environment. The module is delivered through lectures, discussions, case studies, simulation exercises and industry exposure. Freight transportation, plays a critical role in the world as it enables the movement of products and services from suppliers to consumers. It facilitates local and international trade, while employing millions of people globally. While there are many complexities in freight transportation, it is vital that it is managed in a sustainable manner.

[Module web page](#)

### Module aims

The Transportation Techniques and Management module aims to develop in learners the ability to evaluate the role of sustainable freight transportation in logistics & supply chain networks from a local and international perspective. Learners will also gain the aptitude to study and critique freight transportation operations of an organization and/or a geographical area and attempt to find

solutions to problems faced in such operations. Learners will cultivate the ability to design a freight transport solution based on different variables. The module also expects that learners will develop the aptitude to engage in freight transport simulation and reflect on the outcomes.

## **Outline syllabus**

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

- Role of freight transport in logistics and supply chain management
- Freight transport modes and operations
- Intermodal freight transport integration
- Information and communication technologies in freight transport
- International freight transport and freight forwarding
- Freight transport networks and planning
- Freight transport service providers
- Health, safety and environment in freight transport
- Future of freight transport

## **Learning outcomes**

By the end of the module, students should be able to:

- Critically reflect the role of freight transport in logistics and supply chain management
- Critically analyse the application of information technologies and systems in freight transport management
- Analyse complex freight transport operational requirements to design suitable freight transport solutions
- Evaluate the environmental impact of freight transport operations to develop sustainable freight transport systems

## **Indicative reading list**

Rushton et al (2014), *The Handbook of Logistics & Distribution Management*, Kogan Page (Part 5: Freight Transport)

Bektas (2017), *Freight Transport and Distribution*, Taylor & Francis

Monios et al (2017), *Intermodal Freight Transport and Logistics*, Taylor & Francis

## **International**

The module includes substantial discussions on international freight transportation operations, documentation, processes and a case study which would expand on the international elements of the module.

## **Subject specific skills**

Ability to evaluate the role of freight transportation in a supply chain. Proficiency to analyse freight

transport services & operations. Aptitude to critique local, national & international freight transport operations. Capability to analyse information technologies and systems in freight transport management. Ability to analyse complex freight transport operational requirements to design suitable freight transport solutions. Aptitude to evaluate the environmental impact of freight transport operations to develop sustainable freight transport systems.

## Transferable skills

Critical thinking, problem solving, team work, leadership, communication, information literacy, decision making, sustainability, professionalism, organisational awareness.

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## Study

### Study time

Type	Required
Seminars	20 sessions of 1 hour 30 minutes (20%)
Online learning (independent)	20 sessions of 30 minutes (7%)
Private study	50 hours (33%)
Assessment	60 hours (40%)
Total	150 hours

### Private study description

Online learning and private study will include reading, watching asynchronous lectures and completing short tasks.

### Costs

No further costs have been identified for this module.

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## Assessment

You do not need to pass all assessment components to pass the module.

### Assessment group A

	Weighting	Study time	Eligible for self-certification
Post Module Assignment	80%	48 hours	Yes (extension)

	<b>Weighting</b>	<b>Study time</b>	<b>Eligible for self-certification</b>
The Post Module Assignment (PMA) will require individual learners to write an essay, answering a single large question or few small questions aligned with the learning outcomes of the module.			
International Freight Transport Activity	10%	6 hours	Yes (waive)
Presentations prepared and delivered by a group of learners, answering questions related to a case study and/or simulation based on international freight transport			
Planning Sustainable Transport Activity	10%	6 hours	Yes (waive)
Presentations prepared and delivered by a group of learners, answering questions related to a case study and/or simulation based on planning sustainable transport			

## Assessment group R

	<b>Weighting</b>	<b>Study time</b>	<b>Eligible for self-certification</b>
Post Module Assignment (Reassessment)	100%		Yes (extension)
The Post-Module Assignment (Reassessment) will consist of a single large question or few small questions that would be aligned with the learning outcomes of the module.			

## Feedback on assessment

PMA: feedback sheets

PMA reassessment: feedback sheets

In-Module presentations: verbal feedback

## Availability

### Anti-requisite modules

If you take this module, you cannot also take:

- ES9X5-10 Transport Techniques and Management

## Courses

This module is Core for:

- Year 1 of TWMA-H1NB Postgraduate International Trade, Strategy and Operations

- Year 1 of TWMS-H1S8 Postgraduate International Trade, Strategy and Operations (Full-time)
- Year 1 of TWMS-H1T8 Postgraduate International Trade, Strategy and Operations (Part-time)
- Year 1 of TWMS-H7BF Postgraduate Supply Chain and Logistics Management (Hong Kong)
- Year 1 of TWMS-H7BR Postgraduate Taught Supply Chain and Logistics Management
- Year 1 of TWMS-H1Y6 Postgraduate Taught Supply Chain and Logistics Management (Cyprus)
- Year 1 of TWMS-H1SD Postgraduate Taught Supply Chain and Logistics Management (Full-time)
- Year 1 of TWMS-H7A1 Postgraduate Taught Supply Chain and Logistics Management (Singapore)
- Year 1 of TESS-H7PN Postgraduate Taught Supply Chain and Logistics Management (Thailand)