

# WM9E3-15 Transport Techniques and Management

**24/25**

**Department**

WMG

**Level**

Taught Postgraduate Level

**Module leader**

Nishal Samarasekera

**Credit value**

15

**Module duration**

4 weeks

**Assessment**

100% coursework

**Study location**

University of Warwick main campus, Coventry

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## Description

### Introductory description

The Transport 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 management, plays a critical role in the world as it enables the movement of materials and products between suppliers and customers. 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 aims

The Transport Techniques and Management module aims to develop in learners the ability to evaluate different freight transport modes and decide on the most appropriate mode based on diverse criteria. Learners will gain the aptitude to design sustainable freight transport solutions using various techniques. Learners will also cultivate the ability to investigate and critique freight transport operations across multiple modes. The module expects learners to evaluate the impact of freight transport on the environment and learn how to manage freight transport in a sustainable

manner.

## **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
- Sustainable freight transport management

## **Learning outcomes**

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

- Evaluate different freight transport modes and decide on the most appropriate mode or combination of modes based on diverse criteria
- Design sustainable freight transport solutions using various transport planning and management techniques
- Investigate and critique freight transport operations and systems locally, regionally and internationally
- Evaluate the impact of freight transport on the environment and learn how to manage freight transport in a sustainable manner

## **Indicative reading list**

<https://rl.talis.com/3/warwick/lists/8B73E793-E3A5-5776-F152-8BB0CF0F81BF.html>

[View reading list on Talis Aspire](#)

## **International**

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

## **Subject specific skills**

Evaluate different freight transport modes, decide on the most appropriate mode based on diverse criteria, design freight transport solutions using various techniques, investigate and critique freight transport operations, evaluate the impact of freight transport on the environment, learn how to manage freight transport operations in a sustainable manner.

## **Transferable skills**

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

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## Study

### Study time

Type	Required
Seminars	30 sessions of 1 hour (20%)
Online learning (independent)	25 sessions of 1 hour (17%)
Private study	35 hours (23%)
Assessment	60 hours (40%)
Total	150 hours

### Private study description

Online learning and private study will include reading, following asynchronous lectures and completing short activities

### Costs

No further costs have been identified for this module.

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## Assessment

You must pass all assessment components to pass the module.

### Assessment group A2

	Weighting	Study time
Sustainable Freight Transport Essay	60%	36 hours
A single large question or a few small questions based on sustainable freight transport management		
Freight Transport Operations Exercise	20%	12 hours
Take-home test based on freight transport operations		
International Freight Transport Case Study	20%	12 hours
A self-recorded presentation based on a set of questions on an International Freight Transport case study		

## **Feedback on assessment**

Comments via Tabula

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## **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 TWMS-H1SD Postgraduate Taught Supply Chain and Logistics Management (Full-time)

This module is Optional for:

- Year 1 of TWMS-H1S8 Postgraduate International Trade, Strategy and Operations (Full-time)