

# WM9F3-15 Storage and Warehousing Techniques

**24/25**

**Department**

WMG

**Level**

Taught Postgraduate Level

**Module leader**

Gary Bilsbarrow

**Credit value**

15

**Module duration**

4 weeks

**Assessment**

100% coursework

**Study locations**

University of Warwick main campus, Coventry Primary

Distance or Online Delivery

---

## Description

### Introductory description

A well-managed warehouse is recognised as a potential major source of competitive advantage as opposed to just another source of cost within the supply chain. To achieve this competitive advantage, it is important to choose the right location, type of operation, processes, equipment and technology, and then understand and continuously improve performance through appropriate measures and controls. Staff motivation and safety are also important aspects within today's warehouse.

### Module aims

This module will provide a thorough insight into warehouse location, operations, processes, equipment, technology and methods to continuously improve performance through appropriate measures and controls. All of these areas

incorporate real-life examples, industrial exposure, class exercises and case studies to provide an understanding of the role of the warehouse in today's supply chain and its internal and external relationships and impact.

## **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.

- The role of the warehouse in today's supply chain.
- Types of warehouse operation and warehouse processes.
- Warehouse operations exercise or observation.
- Warehouse IT, automation and technology.
- Warehouse location, layout and equipment.
- Warehouse design and simulation exercise.
- Warehouse costs and performance measures.
- Health and safety and environmental issues.
- Procurement and management of 3rd party services.
- Resource planning and labour management.
- The future of warehousing.
- Industrial exposure.

## **Learning outcomes**

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

- Evaluate warehouse operational processes and roles for an informed judgement on warehouse functions across supply chains.
- Select appropriate techniques to improve warehouse processes and operations, proposing sound recommendations and critiques about how technology, equipment and automation can be applied.
- Propose and analyse the criteria required to decide on the most appropriate location for a warehouse within a supply chain and distribution network.
- Determine how to resource a warehouse, including an informed analysis of the costs for space, labour and equipment.
- Interpret a complex warehouse operational requirement in order to design a practical and efficient warehouse layout (as a team member).

## **Indicative reading list**

Richards, G; Warehouse Management, 3rd Ed, Kogan Page London 2017 ISBN 9780749460747

Rushton, A.; The Handbook of Logistics and Distribution Management, Kogan Page 2018 ISBN 9780749476779

Heinrich, M; Warehousing and Transportation Logistics, Kogan Page London 2018 ISBN 9780749482206

Richards G, Grinsted S; The Logistics and Supply Chain Toolkit, 2nd Ed, Kogan Page London  
2016 ISBN 9780749475581

Van den Berg, J; Highly Competitive Warehouse Management Management, Outlook Netherlands  
2012 ISBN 9781466268609

[View reading list on Talis Aspire](#)

## **International**

The module includes discussions and information on international warehousing, distribution and storage operations, decision making, processes and case studies. This can be expanded and applied to increase international elements of the module.

## **Subject specific skills**

Understanding of the Storage and Warehousing subject.

Deep industrial knowledge.

Awareness of key practice and principles.

Understanding of industry structure and future challenges.

Understand the warehouse as an integrated element of the supply chain.

Technological application for improved efficiency.

Resourcing and costing of warehouse operations.

Warehouse design and layout elements.

IT and integrated technology for warehouse operations.

Warehouse location analysis.

Team working skills.

## **Transferable skills**

Communication.

Dependability.

Teamwork.

Organisation and planning.

Adaptability.

Technology and information literacy.

Collaboration and problem solving.

Analytical and critical thinking.

Communication.

Decision making.

Sustainability.

Professionalism.

Organisational and industry awareness.

---

## **Study**

## Study time

Type	Required
Lectures	12 sessions of 1 hour (8%)
Seminars	18 sessions of 1 hour (12%)
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.

---

## Assessment

You must pass all assessment components to pass the module.

### Assessment group A1

	Weighting	Study time
Assessed work as specified by department. Written report. The in modular assessment will require students to write a report answering a single large question or few small questions aligned with the learning outcomes of the module.	60%	36 hours
Assessed work as specified by department. Group work. The in module assessment will focus on the performance of students during in-class group based and or individual based activities, resulting in presentations delivered by the students on relevant learning outcomes. The majority of preparation time is included within the seminar time.	20%	12 hours
Project Exercise Students deliver an exercise based presentation. Success is based on application of theory into practice linked to learning objectives in a group environment.	20%	12 hours

## **Feedback on assessment**

Oral feedback will be provided after the in module assessment, which will be focussed upon the learning outcomes.

Written feedback will be provided for the post module assignment. This feedback will be focussed upon the strengths and weaknesses of the work with regard to the module learning outcomes and the post module assignment marking guidelines. Suggestions for improvement will also be provided.

---

## **Availability**

### **Courses**

This module is Core for:

- MSc in Supply Chain and Logistics Management