

# WM975-15 Supply Chain and Operations Management

**22/23**

**Department**

WMG

**Level**

Taught Postgraduate Level

**Module leader**

Mujthaba Ahtamad

**Credit value**

15

**Module duration**

1 week

**Assessment**

Multiple

**Study location**

University of Warwick main campus, Coventry

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## Description

### Introductory description

Supply Chain and Operations Management is designed to equip future leaders with practical knowledge of how to effectively manage supply and demand within the supply network. The module will also explore the management of supply network relationships, as well as understanding the impact of efficient delivery in companies which value customer centricity. The module will also integrate key topics such as Operations Management and Lean. Together, the knowledge provided can help to encourage supply networks to remain efficient and cost-effective to deliver value for the customer who are central in the global economy.

[Module web page](#)

### Module aims

This module covers a wide range of topics including supply chain and operation management strategies, design, planning, and development. Considerations of systems thinking and a process perspective of operations management, and relationship development is shown as key to an

effective, efficient and ethical/sustainable supply chain. The module aims to provide students with a comprehensive understanding of key decision areas and responses from an operations management perspective, which can in turn affect supply performance.

## **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 module will begin by focusing on understanding the fundamental principles of Supply Chain Management & Operations Management by looking at definitions, links, and fundamentals. It will establish the links to business objectives and the external world (including an understanding of the students own Supply Chain and/or area of Operations).

A number of in-module exercises/case-studies/activities will be used to emphasise the principles/theory of both Supply Chain and Operations Management.

Building on this, the module will focus on the physical supply chain (where appropriate), by looking at topics such as network design and segmentation. Key components of Operations Management will also be established with case-studies focussing on Capacity/Inventory Management. The learning will continue to build on concepts from the previous sessions to further explore control systems, and Sales & Operations Planning (S&OP). This will provide further links into a focus on Relationships (evaluation and development) – Sourcing Strategies & Costings, which will help to manage risk in Supply Chain Networks.

The module will proceed to look at product and information flows specifically looking into the Principles of Lean. There will be time to further explore practical case-studies and to allow in-module assessment preparation, which will conclude the delivery of the module.

## **Learning outcomes**

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

- Compare and contrast different supply chain strategies for the effective supply of products and services in a range of contexts.
- Critically evaluate and adopt appropriately, elements of operations management for successful supply chain process delivery.
- Critically assess and develop effective relationships within supply networks.
- Apply relevantly and appropriately the principles, models and tools to a business issue so demonstrating the application of module learning to their business context.

## **Indicative reading list**

Supply chain management: strategy, planning, and operation  
Book by Sunil Chopra; Peter Meindl 2019: ISBN-10: 0136094511

Operations and process management: principles and practice for strategic impact

Book by Nigel Slack; Alistair Brandon-Jones 2018: ISBN-10: 9781292176130

The handbook of logistics and distribution management

Book by Alan Rushton; Phil Croucher; Peter Baker 2017: ISBN-10: 074947677X

The Lean Toolbox 5th Edition

Book by John Bicheno and Matthias Holweg 2016: ISBN-10: 0956830757

The definitive guide to inventory management: principles and strategies for the efficient flow of inventory across the supply chain Book by Matthew A. Waller; Terry L. Esper 2018: ISBN-10 0133448827

Purchasing and Supply Chain Management: A Sustainability Perspective

Book by T.E Johnson, M.Howard & J Miemczyk 2018: ISBN-10: 1138064769

Dynamic Supply chains

Book by Gattorna, J 2015 ISBN-10: 1292016817

## **Interdisciplinary**

Combines a variety of disciplines to be covered within the module.

## **Subject specific skills**

Supply Chain Dynamics, Enhanced Decision-Making, Balancing Supply and Demand, Analytical Skills

## **Transferable skills**

Team-building, Communication, Numeracy, Data Handling, Time- Management

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## **Study**

### **Study time**

<b>Type</b>	<b>Required</b>
Lectures	15 sessions of 1 hour 30 minutes (15%)
Seminars	5 sessions of 1 hour 30 minutes (5%)
Online learning (independent)	4 sessions of 1 hour (3%)
Other activity	40 hours (27%)
Assessment	76 hours (51%)
Total	150 hours

## **Private study description**

No private study requirements defined for this module.

## Other activity description

Work-Based learning/Reflective Learning applying the concepts from the module to a practical application - to be done/reflected on in the PMA.

## 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 A1

	Weighting	Study time	Eligible for self-certification
Post Module Assignment PMA - on a relevant topic from the module.	70%	60 hours	Yes (extension)
In-Module Assessment Computer-based Multiple Choice Question test (30%)- An assessment to ensure that students have 1) read the available content we have provided online, regarding a specific topic within the module. And 2) to complete a series of questions generated during the module week.	30%	16 hours	No

### Assessment group R1

	Weighting	Study time	Eligible for self-certification
Resubmission A PMA for Resubmissions	100%		Yes (extension)

## Feedback on assessment

Feedback (written) will be provided for all 3 assessments (in-module assessments will be a pass/fail), which will follow the current WMG MSc feedback process and will include suggestions on the strengths and weaknesses of the work with regard to the module learning objectives and the post-module assignment marking guidelines. Suggestions for improvement will also be provided as per the current MSc feedback process. ¿Feedforward¿ & suggestions will be made by the tutors, depending on questions raised by students about the PMA questions.

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## Availability

## Courses

This module is Core for:

- Year 1 of EWMS-H7BJ Postgraduate Taught Supply Chain and Logistics Management (Degree Apprenticeship)
- MSc Supply Chain and Logistics Management (Non-levy funded) Awaiting code

This module is Optional for:

- EWMS-H1B3 Postgraduate Taught Managing in Technology Based Industries (Degree Apprenticeship)
  - Year 1 of H1B4 Managing in Technology Based Industries
  - Year 1 of H1B4 Managing in Technology Based Industries
  - Year 1 of H1B3 Managing in Technology Based Industries (DA)
- MSc Managing in Technology Based Industries (Non-levy funded) Awaiting code