



Module Definition Form (MDF)

Module code: MOD009691	Version: 1 Date Amended: 01/Mar/2024
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1. Module Title
Inventory and Warehouse Management

2a. Module Leader
Brendon Shaw

2b. School
School of Management

2c. Faculty
Faculty of Business and Law

3a. Level
5

3b. Module Type
Standard (fine graded)

4a. Credits
15

4b. Study Hours
150

5. Restrictions			
Type	Module Code	Module Name	Condition
Pre-requisites:	None		
Co-requisites:	None		
Exclusions:	None		
Courses to which this module is restricted:			

LEARNING, TEACHING AND ASSESSMENT INFORMATION

6a. Module Description

This comprehensive module on Inventory and Warehouse Management is designed to equip participants with the essential knowledge and skills to effectively manage inventory and streamline warehouse operations. In today's dynamic business environment, efficient inventory management is a critical component for achieving operational excellence, customer satisfaction, and cost-effectiveness.

This module covers the fundamentals of inventory management, including understanding the role of inventory in supply chain management, differentiating between various types of inventory, and exploring inventory valuation methods and cost control strategies.

You will also learn about warehouse operations and layout design, focusing on designing and optimizing warehouse layouts for maximum efficiency, implementing best practices for warehouse organization and storage, and utilizing technology and automation to enhance warehouse processes. The module delves into inventory planning and forecasting, teaching you how to develop effective inventory planning strategies, utilize forecasting techniques to anticipate demand, and balance service levels and costs through demand forecasting and safety stock management.

Inventory control and ABC analysis are explored, covering the implementation of inventory control policies and procedures, conducting ABC analysis for effective categorization and prioritization of inventory items, and exploring Just-In-Time (JIT) and Economic Order Quantity (EOQ) principles. The role of technology in inventory and warehouse management is emphasized, including leveraging modern technologies such as RFID, barcoding, and warehouse management systems (WMS), and integrating software solutions for real-time visibility and data-driven decision-making.

Additionally, the module addresses risk management and compliance, focusing on identifying and mitigating risks associated with inventory and warehouse operations, and ensuring compliance with regulatory standards and industry-specific requirements.

This module is suitable for professionals involved in supply chain management, logistics, inventory control, and anyone seeking to enhance their understanding of efficient warehouse management practices. The course will be delivered through a combination of lectures, case studies, interactive discussions, and practical exercises to provide participants with hands-on experience in implementing inventory and warehouse management concepts. By the end of the module, you will be well-equipped to optimize inventory levels, improve warehouse efficiency, and contribute to overall supply chain effectiveness in their respective organizations.

6b. Outline Content

- Introduction and overview of what is inventory and warehouse management from the initial supplier to the end consumer.
- Understand the critical integration of inventory management within a global supply chain and the overall business landscape.
- Explore the key components and functions within the Inventory and Warehouse management i.e. SOP, quality, security, storage configuration, health & safety
- Processes in supporting the operational functions of organisations to effectively meet the supply and demand objectives, by holding stock and commodities at strategic points within the supply chain, which will feed downstream physical distribution channels.
- Review different real world case studies within B2C or retail sector markets, warehouses may feed multiple channels, often referred to as omnichannel.
- Inventory management is an essential element of the process, where optimal stock of products needs to be maintained, carefully considering and managing demand dynamics and seasonality for demand.
- Consider the impact of sustainability within warehousing to eliminate energy usage, pollution, land fill, recycling, traffic flows

6c. Key Texts/Literature

The reading list to support this module is available at: <https://readinglists.aru.ac.uk/>

6d. Specialist Learning Resources

None

7. Learning Outcomes (threshold standards)

No.	Type	On successful completion of this module the student will be expected to be able to:
1	Knowledge and Understanding	Understand the role of warehousing and inventory management in the context of global supply chain operations;
2	Knowledge and Understanding	Acquire, analyse, and synthesise data and information to evaluate or improve a supply chain relationship, network or strategy using effective techniques;
3	Intellectual, practical, affective and transferrable skills	Develop a sound and logical approach to decision making through the effective establishment of criteria and use of decision-making techniques;
4	Intellectual, practical, affective and transferrable skills	Capable of solving purchasing, logistics/transport, and supply chain problems through combining critical and reflective evaluation with a creative approach to problem-solving

8a. Module Occurrence to which this MDF Refers				
Year	Occurrence	Period	Location	Mode of Delivery
2025/6	ZZF	Template For Face To Face Learning Delivery		Face to Face

8b. Learning Activities for the above Module Occurrence			
Learning Activities	Hours	Learning Outcomes	Details of Duration, frequency and other comments
Lectures	12	1-4	Lecture 1 hr x 12 weeks
Other teacher managed learning	12	1-4	Seminar 1hr x 12 weeks
Student managed learning	126	1-4	Preparation for seminars, including reading, researching issues
TOTAL:	150		

9. Assessment for the above Module Occurrence					
Assessment No.	Assessment Method	Learning Outcomes	Weighting (%)	Fine Grade or Pass/Fail	Qualifying Mark (%)
010	Coursework	1-4	100 (%)	Fine Grade	30 (%)
3,000 word written assignment					

In order to pass this module, students are required to achieve an overall mark of 40% (for modules at levels 3, 4, 5 and 6) or 50% (for modules at level 7*).

In addition, students are required to:

(a) achieve the qualifying mark for each element of fine graded assessment as specified above

(b) pass any pass/fail elements

[* the pass mark of 50% applies for all module occurrences from the academic year 2024/25 – see Section 3a of this MDF to check the level of the module and Section 8a of this MDF to check the academic year]