

Module Title:	Inventory and Materials Management
Language of Instruction:	English
Credits:	5
NFQ Level:	8
Module Delivered In	2 programme(s)
Teaching & Learning Strategies:	<p>Lectures - communication of knowledge and ideas from the lecturer to the student. Problem Solving Exercises - student will work as part of a team and will work together to resolve various legal scenarios. Class Discussion/Debate - Students will be encouraged to actively participate in the class sessions which will develop their analytical and communication skills. E-Learning - It is envisaged that the module will be supported with on-line learning materials. Self-Direct Independent Learning - the emphasis on independent learning will develop a strong and autonomous work and learning practices. Site Visits and Visiting Lectures</p>
Module Aim:	The module aims to provide the student with the ability to use inventory management tools across a wide range of industry sectors and a comprehensive understanding of Materials Management.
Learning Outcomes	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	Explain the operation and location of stores and warehouses, and examine their role, and the role of inventory in supply chains.
LO2	Select and apply appropriate inventory and materials management tools and techniques in a manufacturing and distribution environment.
LO3	Distinguish between the planning and execution of job-shop, batch manufacturing, mass production and JIT operations, and explain the role of inventory management in each.
Pre-requisite learning	
Module Recommendations	
<i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>	
No recommendations listed	
Incompatible Modules	
<i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i>	
No incompatible modules listed	
Co-requisite Modules	
No Co-requisite modules listed	
Requirements	
<i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i>	
No requirements listed	

Module Content & Assessment

Indicative Content

Introduction to Inventory Management

The role of inventory; Classification of Inventory, Stock recording, Stock-taking, ABC analysis of stocks;

Retail Buying and Merchandising

ECR and continuous replenishment, Quick Response Logistics, Central Distribution, Merchandise Budget Planning,

Warehouse Management

Warehouse Operations, Warehouse Management Systems and Technology, Warehouse Location decisions, Distribution Channel Design,

Inventory Management

Inventory Holding costs, Inventory Risks, Periodic Review, Orderpoint Systems, EOQ, DRP, Demand Amplification (bullwhip),

Manufacturing Planning and Control

Production Planning, Master Production Schedule, MRP, Shop floor scheduling and Capacity Planning, MRP II, Technology and ERP

Just-in-Time

Evolution of Manufacturing, Origins of JIT, Elements of JIT, Kanban systems, Lean Manufacturing, Lean Supply Chains

Assessment Breakdown

%

Continuous Assessment

100.00%

Continuous Assessment

<i>Assessment Type</i>	<i>Assessment Description</i>	<i>Outcome addressed</i>	<i>% of total</i>	<i>Assessment Date</i>
Essay	Individual Report	1	40.00	Week 6
Short Answer Questions	Class Test	2,3	30.00	Week 10
Presentation	Presentation	1,2,3	30.00	Week 12

No Project

No Practical

No End of Module Formal Examination

SETU Carlow Campus reserves the right to alter the nature and timings of assessment

Module Workload

Workload: Full Time		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	Every Week	3.00
Independent Learning Time	15 Weeks per Stage	5.93
Total Hours		92.00

Workload: Part Time		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	Every Week	1.50
Independent Learning Time	15 Weeks per Stage	7.13
Total Hours		108.50

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_BBSCM_B	Bachelor of Business (Honours) in Supply Chain Management	5	Mandatory
CW_BBSCM_D	Bachelor of Business in Supply Chain Management	5	Mandatory