






Level 5 Diploma in Logistics & Supply Chain (850) 145 Credits



Unit: Supply Chain Management	Guided Learning Hours: 220
Exam Paper No.: 1	Number of Credits: 22
Prerequisites: Basic knowledge of business procedures.	Corequisites: A Pass or better in Certificate in Business Studies or equivalence.
<p>Aim: This course will equip learners with necessary concepts of modern supply chain management and how to use them effectively in solving intricate real life problems. The concepts introduced in the course aim to improve operational efficiency and effectiveness by enabling data-driven decisions at strategic, operational as well as tactical levels. It encompasses the complete value chain from sourcing, manufacturing, distribution to logistics</p> <p>On completion of the course, learners will be able to handle strategy roles in different sectors; including e-commerce departments of renowned brands. They can use the concepts of agile supply chain management in developing market strategies and designing thorough plans for business expansions.</p>	
Required Materials: Recommended Learning Resources.	Supplementary Materials: Lecture notes and tutor extra reading recommendations.
Special Requirements: None	
<p>Intended Learning Outcomes:</p> <ol style="list-style-type: none"> Understand how supply chains keep goods and services flowing into the marketplace by covering topics such as manufacturers, suppliers, transporters, warehouse users, retailers, and customers. Understand the relationship between Master Production Schedule (MPS) creates a plan for satisfying forecast & firm customer orders and Material Requirements Planning (MRP). Understand issues related to sourcing processes and decisions; Make vs Buy / Manufacture vs Outsource. Understand the steps a production order may go through; from inception in the Production Control department to completion of the order. 	<p>Assessment Criteria:</p> <ol style="list-style-type: none"> Describe supply chain activities. Describe objectives of supply chain. Demonstrate how competition strategy drives supply chain strategies. Describe supply chain cross-functional drivers. Be able to calculate cash-to-cash cycle time Define Material Requirements Planning (MRP). Describe Master Production Schedule (MPS). Describe the types of item planning data. Describe inventory records. Define Bills of Materials (BOM). Describe gross and net requirements. Explain challenges of MRP management Describe advantages of sourcing. Demonstrate rule of sourcing in supply chain. Describe supply chain contracts. Describe examples of direct and indirect materials. Describe purchasing technology Explain purpose of production order. Describe the production order life cycle. Describe manufacturing operations.

<p>5. Understand why transportation is a significant component of cost of most supply chains; from the manufacturing plant, material may be shipped to a distribution center or warehouse, to a wholesaler or retailer, or directly to a customer.</p> <p>6. Understand Warehousing and Distribution, which comes after planning, purchasing, production and material transportation; which is finding a place to store materials.</p>	4.4	Describe basic types of manufacturing strategies.
	4.5	Describe manufacturing technologies
	5.1	Explore the role of transportation in supply chain.
	5.2	Describe transportation modes and issues associated with each.
	5.3	Analyse factors in choosing transportation mode.
	5.4	Explore transportation network options.
	5.5	Analyse impact of inventory on transport cost.
	5.6	Describe transportation risks and mitigation strategies
	6.1	Describe warehousing activities
	6.2	Describe shipment and dispatch process
	6.3	Explore trade-off between handling costs and warehouse space costs
	6.4	Describe material handling costs
	6.5	Describe ways to add value and increase storage flow
<p>Methods of Evaluation: A 2½-hour essay written examination paper with 5 questions, each carrying 20 marks. Candidates are required to answer all questions. Candidates also undertake project/coursework Supply Chain Management with a weighting of 100%.</p>		

Recommended Learning Resources: Supply Chain Management

<p>Text Books</p>	<ul style="list-style-type: none"> Essentials of Supply Chain Management by Michael H. Hugos. ISBN-13 : 978-1119461104 Purchasing and Supply Chain Management by Dr Brian Farrington and Dr Kenneth Lyons. ISBN-13 : 978-0273723684 Advanced Strategies in Supply Chain by Murillo Xavier. ISBN-13 : 979-8681967927
<p>Study Manuals</p> 	BCE produced study packs
<p>CD ROM</p> 	Power-point slides
<p>Software</p> 	None