

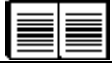




## Logistics & Supply Chain (850)

<b>Unit:</b> Supply Chain Management	<b>Guided Learning Hours:</b> 220
<b>Exam Paper No.:</b> 1	
<b>Prerequisites:</b> Basic knowledge of business procedures.	<b>Corequisites:</b> A Pass or better in Certificate in Business Studies or equivalence.
<b>Aim:</b> 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 <b>strategic, operational</b> as well as <b>tactical levels</b> . The unit encompasses the complete value chain from calculating Cash Conversion Cycle/Cash-to-Cash Cycle (CCC), Material Requirements Planning (MRP) tools, sourcing, purchasing, manufacturing, distribution to logistics. On completion of the course, learners will be able to handle strategic roles in different sectors; including e-commerce departments of renowned brands. It ensure learners can use the concepts of agile supply chain management in developing market strategies and designing thorough plans for business expansions.	
<b>Required Materials:</b> Recommended Learning Resources.	<b>Supplementary Materials:</b> Lecture notes and tutor extra reading recommendations.
<b>Special Requirements:</b> None	
<b>Intended Learning Outcomes:</b> 1. Understand the importance of supply chain planning processes and strategies.  2. Understand components of Materials Requirements Planning (MRP) tool, the purpose and calculations of each.  3. Understand the three MRP inputs, namely; Master Production Schedule (MPS), Bills of Material (BOM) and Inventory Records.  4. Understand how to calculate the number of units of each item that would be needed to satisfy demand.	<b>Assessment Criteria:</b> 1.1 Define supply chain activities and objectives. 1.2 Describe steps products take from manufacturer to customer. 1.3 Be able to demonstrate knowledge of different financial measures. 1.4 Be able to calculate Cash Conversion Cycle/Cash-to-Cash Cycle (CCC) and its components. 1.5 Describe strategic fit framework.  2.1 Explore the components of the MRP tool. 2.2 Define dependent demand. 2.3 Describe the distinct steps in preparing MRP schedule. 2.4 Analyse assumptions made when constructing MRP. 2.5 Identify when to use MRP.  3.1 Describe the purpose of MRP. 3.2 Explore the planning data attributes. 3.3 Identify the contents of inventory records. 3.4 Define lead time. 3.5 Describe Bill of Material (BOM). 3.6 Demonstrate developing and explaining product structure diagram.  4.1 Demonstrate calculating Gross Requirements Plan. 4.2 Demonstrate calculating Net Requirements Plan. 4.3 Describe terms associated with Net Requirements Plan.

<p>5. Understand sourcing, purchasing, manufacturing processes and role play by transportation, warehousing and distribution in fulfilling supply chain operations.</p>	<p>4.4 Define Rough-Cut Capacity Planning (RCCP).</p> <p>4.5 Demonstrate calculating Master Production Schedule (MPS).</p> <p>5.1 Describe the role of sourcing in supply chain.</p> <p>5.2 Explore purchasing technology.</p> <p>5.3 Analyse manufacturing layouts and strategies.</p> <p>5.4 Describe the role of transportation in supply chain.</p> <p>5.5 Identify activities involved in running a warehouse.</p>
<p><b>Methods of Evaluation:</b> 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><b>Text Books</b></p>	<ul style="list-style-type: none"> <li>Essentials of Supply Chain Management by Michael H. Hugos. ISBN-13 : 978-1119461104</li> <li>Purchasing and Supply Chain Management by Dr Brian Farrington and Dr Kenneth Lyons. ISBN-13 : 978-0273723684</li> <li>Advanced Strategies in Supply Chain by Murillo Xavier. ISBN-13 : 979-8681967927</li> </ul>
<p><b>Study Manuals</b></p> 	<p>BCE produced study packs</p>
<p><b>CD ROM</b></p> 	<p>Power-point slides</p>
<p><b>Software</b></p> 	<p>None</p>