

**MANAGEMENT AND INFO TECHNOLOGY UNIT INSTRUCTIONS**

**Course**

Foundations of Supply Chain Management

**Objectives**

* Students will investigate the tools and processes used to manage the flow of inputs and outputs within a supply chain
* Students will present an analysis of the use of computers and other information technologies to operate a supply chain
* Students will analyze business financial statements and the role they play in a company’s profitability
* Students will examine problems that could arise in a complex supply chain and prepare a presentation recommending a solution

**TN State CTE Standards**

**Management and Information Technology #15:** Investigate the tools and processes used by companies to manage the flow of inputs and outputs within a supply chain. Determine how barcodes, radio frequency identification (RFID), unique identification (UID), and tagging methods (active and passive) are employed in the tracking and distribution of product flow.

**Management and Information Technology #16:** Determine the ways computers and other information technologies are used in a supply chain. Create a table or chart listing technologies/software that are used and describe how they improve supply chain function. For example, discuss the impact of automated warehouses on distribution and logistics functions within a company.

**Management and Information Technology #17:** Establish the contributions supply chain has on a consumer’s price for a product and a company’s profit/loss potential. Analyze typical business financial statements – Statement of Cash Flows, Income Statement, and Balance Sheet – to determine how supply chain costs are reported on and affect the bottom-line outcomes of each financial statement. Create an infographic depicting how changes in supply chain costs affect final product pricing and company profitability.

**Management and Information Technology #18:** Create a list of the decisions that must be made and the problems that could potentially arise in a complex supply chain. Research individual and group problem-solving and decision-making strategies applicable to each decision/problem listed. Choose one of the problems listed, apply knowledge of supply chain management, and prepare a presentation recommending a solution.

**Essential Questions**

* What is the role of information technology in supply chain management?
* How can technology improve the reliability and efficiency of a company’s supply chain?
* How do supply chain managers link the results of supply chain decisions to the financial goals of a company?
* How can supply chain managers mitigate supply chain disruptions and risks through the use of information technology?

**Duration**

3 weeks

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| ACTIVITIES | | | | |
| **Assignment** | **Due**  **Date** | **Date Completed** | **Grade** |
| Management and Information Technology PPT |  |  |  |
| Glossary: Management and Information Technology |  |  |  |
| Reading: *The Impact of Technology on Supply Chain Management* |  |  |  |
| Activity: WMS In Supply Chain Management |  |  |  |
| Reading: *5 Supply Chain Disruptions and Mitigation Tactics* |  |  |  |
| Case Study: Welcome to the Automated Warehouse of the Future |  |  |  |
| Activity: Financial Statements and Supply Chain |  |  |  |
| Project: Technological Advances in Logistics |  |  |  |