

CLT Course Unit Description



Supply Chain Logistics: Foundational Knowledge

The curriculum is designed to provide students with foundational-level knowledge of the world of supply chain logistics. This course covers the material handling aspect of the global supply chain and describes the foundational knowledge that front-line material handling workers should master to perform well. It is designed to give students a broad overview of the industry and how the frontline worker fits into that environment.

Chapter	Key Activity	Description
1-Global Supply Chain Logistics	Demonstrate an understanding of the various roles in the global supply chain logistics life cycle	An overview of the world of Global Supply Chain Logistics including: the product life cycle through the supply chain, the roles of various links of the supply chain, and productivity measures and cost elements of the supply chain.
2-The Logistics Environment	Demonstrate an understanding of the logistics environment	Introduces the logistics environment including the terms and jargon of the industry and the basic physical, informational and security aspects of the supply chain. Provides a brief overview of government regulations that affect the movement of goods throughout supply chain.
3-Material Handling Equipment	Identify and use equipment	Introduces the types of equipment used in logistics facilities. Students will learn about various types of fork-trucks, conveyors, packaging equipment, etc. They will also learn the concepts of preventive and corrective maintenance for material handling equipment.
4-Safety Principles	Practice safety principles	Introduces the concept of safety in the logistics environment. Students will learn about worker and workplace safety principles including accident prevention. They will also learn about government safety requirements.
5-Safe Material Handling and Equipment Operation	Practice safety principles in the handling of materials and operating of equipment	Introduces the concept of safety on the job for material handling workers. Students will learn safe material handling and lifting practices and proper use of personal protective equipment. They will also learn material handling equipment safety.
6-Quality Control Principles	Practice quality control principles	Introduces the principles of quality control in a logistics facility. Students will learn about quality control systems such as: Six Sigma, TQM, Lean, PDCA, etc. They will also learn about the role of the frontline worker in quality control including audits and managing non-conformities.
7-Work Communications	Employ good work communication practices	Covers communication skills in the workplace. Students will learn about internal and external communication including clear communication between shifts and customer communication.
8-Teamwork and Good Workplace Conduct	Practice teamwork and good workplace conduct to solve problems	Teaches basic problem solving skills, effective teamwork and meeting SMART goals. Students will learn how to be an effective team-member. They will also learn good workplace conduct (employability skills).
9-Using Computers	Use relevant computer systems and applications to increase productivity	Introduces general computers and general computer software used in logistics environment. Students will also learn about general technology used in the logistics environment (e.g. bar codes, RFID, etc.).

Supply Chain Logistics: Mid-Level Technical Knowledge

The curriculum is designed to provide students with mid-level technical knowledge of the world of supply chain logistics. This course covers the material handling aspect of the global supply chain and describes the mid-level technical knowledge that front-line material handling workers should master to perform well. It is designed to give students more practical insight into the industry and how the frontline worker fits into that environment.

Chapter	Key Activity	Description
1-Product Receiving	Receive products	Covers the activities involved in receiving products into a logistics facility. Students will learn how the receiving activity is important to all aspects of logistics including: production, inventory control and quality control. They will also learn the types of documentation used in the receiving department.
2-Product Storage	Stock products	Covers the activities involved in stocking products. Students will learn what factors affect how products are stored including: product shelf-life, hazards, weight and size. They will also learn about the importance of proper routing of products and safe storage.
3-Order Processing	Process product orders	Explains the product order cycle. Students will learn about various picking processes and how they impact warehouse operations. They will also learn about the importance of picking accuracy and common order picking forms.
4-Packaging and Shipment	Prepare packages for shipment and ship products	Explains packaging and shipping procedures. Students will learn what types of packaging are best suited to products. They will also learn about shipping documentation and basic load distribution principles.
5-Inventory Control	Maintain control of inventory	Explains how inventory control affects overall operation. Students will learn basic inventory management principles, stock rotation and inventory tracking methods. They will also learn about the technology used to control and monitor inventory.
6-Safe Handling of Hazardous Materials	Handle hazardous materials in a safe manner	An overview of the safe handling of hazmats. Students will learn about hazmat classifications. They will also learn about the rules and regulations that affect hazmat storage and transport.
7-Evaluation of Transportation Modes	Evaluate transportation modes	Explains, in detail, the various transportation modes used to transport products throughout the supply chain. Students will learn the advantages and disadvantages of common transport methods. They will also learn about the rules and regulations that affect transport of goods.
8-Dispatching and Tracking Operations	Perform dispatch, routing and tracking operations	Explains how products are managed during transport, both domestically and internationally. Students will learn about basic customs documentation and the rules and regulations guiding international transport of products. Students will also learn about intermodal transportation.
9-U.S./Metric Conversions	Understand U.S. measurements and metric system conversions	Explains basic measurement techniques. Students will also learn how to convert measurements between U.S. and metric systems.