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Sustainable Human Resource Development in logistics services for ASEAN Member States

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Logistics Planning & Analysis

Chapter 5

Warehouse Management



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Objectives

- Define and understand the role of warehouse in logistics systems.
- Examine the functions and activities of warehouses.
- Examine the planning dimension of warehouses



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Introduction – Warehousing

- Logistics exists to move and position inventory to achieve desired time and place benefits at the lowest total cost.
- Inventory has limited value until it is positioned at the right time and at the right location to support customers.

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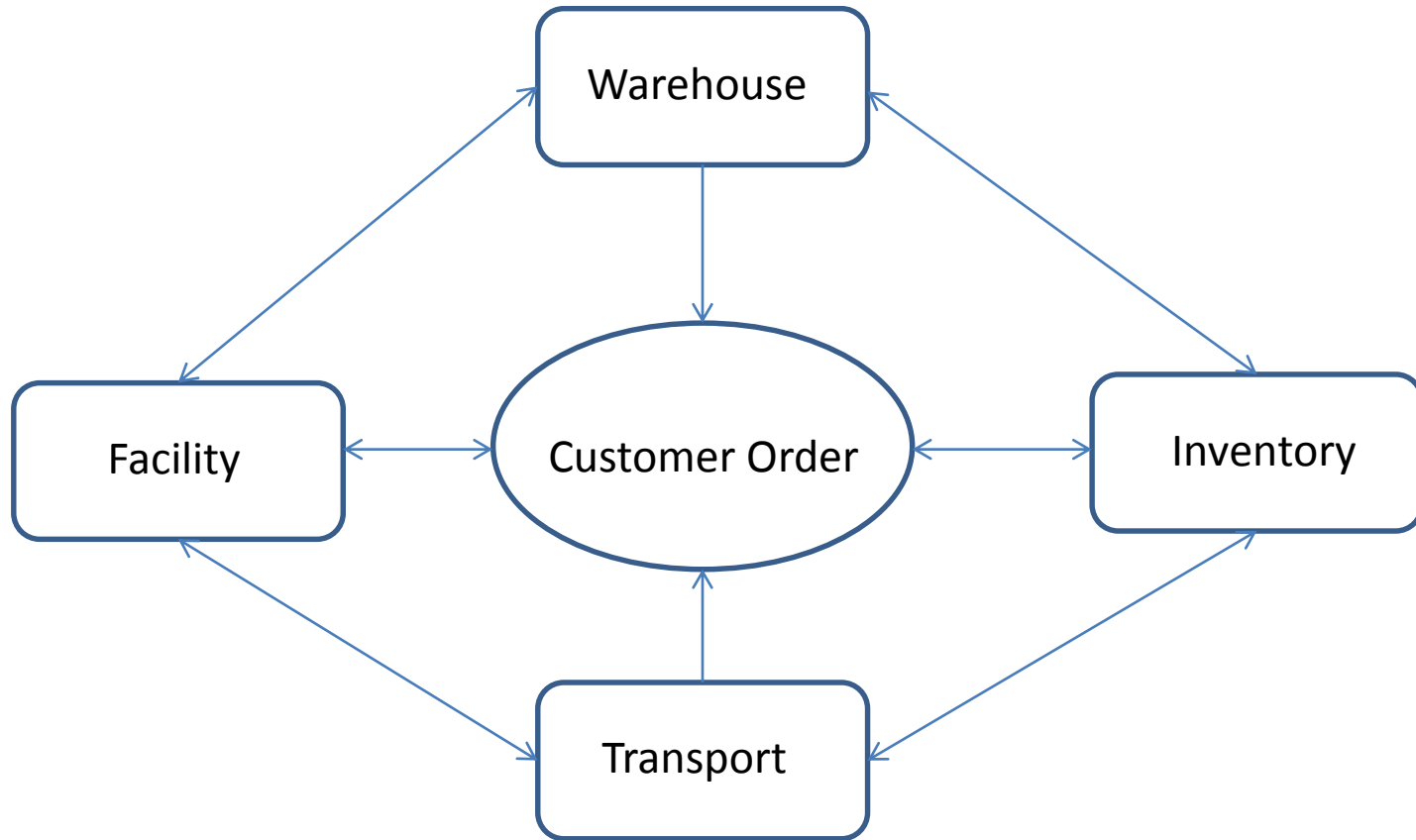


Figure 5-1: Relationship between Warehousing and Other Functions



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Warehouse Strategy and Functionality

- A warehouse is typically viewed as a place to hold or store inventory.
- However, in contemporary supply chain systems, warehouse functionality can be more properly viewed as inventory mixing.



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Warehouse Operations

- A typical warehouse contains materials, parts, and finished goods on the move.
- Warehouse operations consist of break-bulk, storage, and assembly procedures.
- This emphasis on product flow renders a modern warehouse as a mixing facility.
- The three primary handling activities are receiving, in-storage handling, and shipping.



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Warehouse Operations

- Receiving
- In-Storage Handling
- Order Picking
- Shipping

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Warehouse Planning

- Site Selection
- Materials Handling Considerations
- Layout
- Sizing

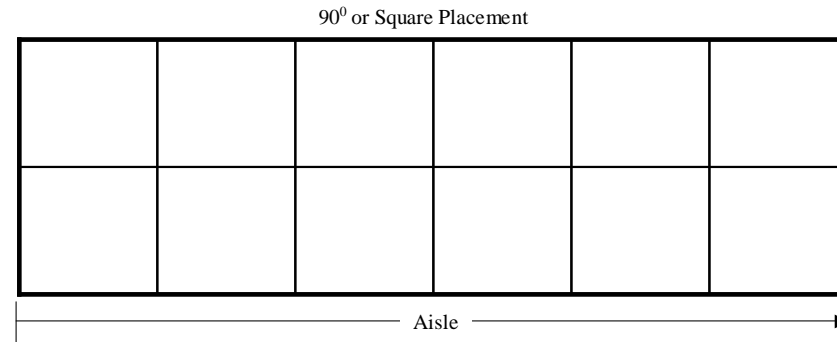


Figure 5-2: Basic Method of Pallet Placement



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Initiating Warehouse Planning

- Stocking
- Training
- Warehouse Management Systems
- Security
- Pilferage Protection
- Safety and Maintenance



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Conclusion

- The role of warehouse is more than a temporary storage.
- It offers both protection and preservation of inventory in the supply chain.