

FOUNDATIONS OF DISTRIBUTIONS AND LOGISTICS



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Course Overview

Distribution and logistics professionals must solve thorny problems involving time, place, delivery and levels of service in order for organizations to compete successfully. This course introduces the fundamental concepts required to create an optimal distribution and logistics strategy.

Learn why distribution channels are so important. Be able to describe different channel design models. Explain tradeoffs between different channel network designs, including customer response time, product variety, product availability and delivery time. Explore inventory management and its function in distribution and logistics.

Course Format

Courses are delivered entirely online. Content includes readings, videos, and brain-boosting activities to help you retain your new knowledge. Learn on desktop, tablet or mobile — the interactive study tools are highly effective either way.



Course Outline

Module 1: Operations Management

- Operations Management Foundations — Overview
- What Is Operations Management?
- What Trends Are Impacting Operations Management?
- What Do Operations Managers Do?
- What Value-Added Activities Are Performed?
- How Does Operations Management Fit into the Organization?
- What Is the Scope of Operations Management Functions?
- Operations Management – Changing Perspectives
- Operations Management and Business Strategy
- Contributing Role of Operations Management to Strategy
- Ten Strategic Operations Management Decisions
- Operations Management Foundations — Summary and Review

Module 2: Introduction to Distribution and Logistics

- Introduction to Distribution and Logistics — Overview
- Defining Distribution Management
- What Is the Supply and Distribution Channel?
- The Need for Distribution Channels
- Reducing Channel Transaction Complexity
- Channel Design Tree Structures
- Channel Intermediaries
- Role of the Distribution Function
- Defining Logistics Management
- Logistics Management Functions
- Logistics Operations
- Logistics Strategy
- Guidelines for Logistics Strategy
- Logistics and Supply Chain Management
- Reverse Logistics
- Motivating Factors for Reverse Logistics
- Waste Hierarchy
- Benefits of Reverse Logistics
- Introduction to Distribution and Logistics — Summary and Review

Module 3: Channel Network Design

- Channel Network Design - Overview
- Defining Channel Network Design
- Reasons for Channel Networks
- Critical Design Considerations
- Channel Design Factors
- Level of Channel Dependency
- Channel Design - Manufacturing Method
- Channel Configuration Attribute Matrix
- Channel Configuration Attribute Matrix – Exercise
- Producer Storage with Direct Delivery
- Producer Storage with Drop Ship
- Producer with Extended Channel Network
- Aggregator with Extended Channel Network
- Aggregator with e-Business Network
- Omnichannel
- Comparing Distribution Network Option Performance
- Framework for Channel Network Design
- Micro Decisions
- Influencing Channel Design
- Factor-Rating Method
- Center of Gravity Method
- Channel Demand and Capacity
- Channel Network Design - Summary and Review

Module 4: Distribution Inventory Management

- Distribution Inventory Management - Overview
- Defining Inventory Management
- Functions of Inventory
- Distribution Inventory Management Process
- Characteristics of Inventory in the Supply Chain
- Supply Chain Inventory and Demand Flows
- Inventory Replenishment Components
- Ordering Techniques - When to Order
- Basic Order Point Model and Order Point Trigger
- Demand Variation and Safety Stock
- Calculating Safety Stock
- Determining Order Quantity
- Order and Inventory Carrying Cost Components
- Determining the Economic Order Quantity (EOQ) - Trial and Error Method
- EOQ Calculation
- Maximum and Minimum Ordering
- Replenishment Planning Process
- The Period Review System - Review Interval and Uses
- The Periodic Review System - Mechanics and Calculation
- Distribution Inventory Management — Summary and Review

Module 5: Distribution Requirements Planning

- Distribution Requirements Planning — Overview
- Distribution Channel Dependencies
- Push System Functions
- Push System Allocation – Example
- Pull System Functions
- What to Choose: Order Points or DRP
- Defining Distribution Requirements Planning (DRP)
- Time Phasing – The Heart of DRP
- Introduction to the DRP Grid
- PAB and the Net Requirements Grid
- DRP Planned Order Generation
- PAB and Net Requirements Recalculation
- Using Safety Stock in DRP
- DRP and the Bill of Distribution
- DRP Planning Process
- DRP Example
- Distribution Requirements Planning — Summary and Review

Module 6: Warehouse Management

- Warehouse Management — Overview
- Defining Warehouse Management
- Warehouse Functions
- Product Storage
- Order Management
- Information Transfer
- Types of Warehousing
- Basic Operations of Warehousing
- Strategic Decision Components
- Third and Fourth-Party Logistics (3PL/4PL)
- Warehouse Management Process
- Importance of Warehouse Standards
- Warehouse Work Standards Exercise
- Receiving Flow
- Warehouse Stocking Functions
- Three Ps of Inventory Control
- Transaction Management
- Order Picking Options
- Order Shipment Flow
- Warehouse Performance
- Warehouse Management — Summary and Review

Module 7: Packaging and Materials Handling

- Packaging and Materials Handling — Overview
- Warehouse Design and Layout Objectives
- Warehouse Size and Capacity
- Basic Warehouse Layouts
- Warehouse Layout Development
- Warehouse Design and Layout Principles
- Principles of Materials Handling
- Types of Storage Systems
- Large-Item or Large-Volume Storage
- Small-Item or Small-Volume Product Storage
- Automated Storage Systems
- Stocking Inventory in Warehouse Locations
- Dock Equipment
- Mobile Materials Handling Equipment
- Role of Packaging
- Unitization
- Unitization Principles and Examples
- Warehouse Automation – Key Drivers
- Warehouse Automation Components
- Warehouse Management System (WMS)
- Packaging and Materials Handling — Summary and Review

Module 8: Transportation Management

- Transportation Management — Overview
- Defining Transportation Management
- Fundamental Principles of Transportation
- Principles of Transportation Operations
- Transportation Participants
- Transportation Services – Load Transport
- Transportation Services – Product Storage
- Relationship of Transportation to Other Business Functions
- Motor Transportation
- Railroad Transportation
- Air Transportation
- Water and Pipeline Transportation
- Intermodal Transportation
- Types of Transportation Carriers
- Third-Party Logistics (3PL) – Functions and Transportation
- Logistics Outsourcing Models
- Transportation Challenges
- Transportation Management — Summary and Review

Module 9: Transportation Operations

- Transportation Operations – Overview
- Transportation Operations Principles
- Role of Transportation Administration
- Types of Transportation Risk
- Transportation Management Process
- Transportation Cost
- Detailed Transportation Cost Components
- Transportation Rates and Pricing
- Terms of Sale (United States)
- Transportation Mode Selection
- Transportation Carrier Selection
- Transportation Routing and Scheduling
- Transportation Routing Problem and Solution
- Documentation and Post-Shipment Processing
- Transportation Performance Measurement
- Transportation Performance Scorecard
- Transportation Management System
- Transportation Operations — Summary and Review



Course Summary

Location:	Online
Duration:	8 Weeks
Cost:	US\$ 225
Dates:	Open – Start anytime



Pan Africa Skills & Consulting Ltd
Brunei House, 3rd Floor | Witu Road off Lusaka Road
P.O. Box 16481 - 00100 Nairobi, Kenya
Tel: +254 20 6530112 | 2349816
Mobile: + 254 718 006 797 | 737 512 793
E-Mail: info@panafricaskills.co.ke | www.panafricaskills.co.ke