

PD02 Supply Chain Management Standards



PD02

Supply Chain Management

Published by: The Chartered Institute of Logistics and Transport in the UK

Earlstrees Road

Corby

Northants

NN17 4AX

Tel: 01536 740100

Fax: 01536 740101

All rights reserved. No part of this publication may be re-produced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without prior permission of the publishers. This publication may not be lent, re-sold, hired out or otherwise disposed of by way of trade in any form of binding or cover other than that in which it is published, without prior consent of the publishers. Within the UK, exceptions are allowed in respect of any fair dealing for the purpose of research or private study, or criticism or review, as permitted under the Copyright, Designs and Patents Act, 1988, or in the case of reprographic reproduction in accordance with the terms and conditions issued by the Copyright Licensing Agency.

© The Chartered Institute of Logistics and Transport in the UK™

PD02 Supply Chain Management

Unit purpose and aim

The aim of this unit is to introduce the main principles, concepts and practices of supply chain management. The content of the module covers four main themes. These are: what is a supply chain and supply chain planning, why it is important in any business, how the supply chain operates and the principles for supply chain improvement. Where appropriate, the global nature of the supply chain will be emphasised.

Elements

PD02-1	The Supply Chain
PD02-2	Supply Chain Planning
PD02-3	Supply Chain Operations
PD02-4	Supply Chain Improvement

This page is intentionally blank

The Supply Chain

Learning Outcomes The learner will:	Assessment Criteria The learner can:
1.1. Understand the concept of the supply chain, its main components and how it may vary in different organisations.	1.1.1. Describe and illustrate the structure of an organisation's supply chain.
	1.1.2. Critically compare one organisation's supply chain with that of others.
1.2. Understand the importance of integrating and harmonising physical and information flows within a supply chain.	1.2.1 Analyse the physical and information flows within a supply chain and effect improvements in integration and harmonisation.
1.3. Understand how an organisation can manage and control its supply chain to gain competitive advantage.	1.3.1. Assess the strengths and weaknesses of an organisation's supply chain.
	1.3.2. Assess the ability of a supply chain to provide competitive advantage.
1.4. Know why supply chains may not always function effectively.	1.4.1. Evaluate the barriers to the effective working of a supply chain.
	1.4.2. Develop solutions to improve supply chain effectiveness.

Indicative Content

Supply Chains Structure of supply chains, supply chain

management, critical linkages,

procurement, supply chain management

in manufacturing, distribution.

Physical and information flows Material flow pipeline, information flow,

management control and the flow of

money.

Management and control of the supply chain to gain competitive and/or cost

advantages

Supply Chain management as the basis for competitive advantage, value chains, key challenges, the 'customer service explosion', time compression, supply chain integration, the globalisation of industry, changes in supply chain

management.

Why supply chains may not always

function in an effective way

Demand amplification, communication

problems.

Supply Chain Planning

Learning Outcomes The learner will:	Assessment Criteria The learner can:
2.1. Understand how to plan a supply chain from a strategic and operational standpoint.	2.1.1. Develop a supply chain plan that will meet the organisation's objectives.
2.2. Understand the relationship between supply chain planning and customer service levels.	2.2.1. Develop operational supply chain plans that will meet customer service requirements.
2.3. Understand the role of inventory in the supply chain.	2.3.1. Implement an effective process of demand management.
2.4. Understand the importance of effective inventory control within the supply chain.	2.4.1. Implement an effective process of inventory control that will meet the required outcomes of both the organisation and its customers.
2.5. Understand alternative supply chain strategies, their characteristics and constraints.	2.5.1. Critically examine available alternative supply chain strategies with a view towards integrating them into an existing supply chain.
2.6. Understand new and developing supply chain strategies.	2.6.1. Critically examine current supply chain strategies and options aimed at enabling supply chain integration.

Indicative Content		
Supply chain planning	Strategic: planning decisions; segments; alternatives. Operational: networks; modelling.	
Inventory and inventory management	Demand planning, inventory management: quick response models; vendor-managed inventory; co-managed inventory; collaborative planning, forecasting & replenishment (CPFR).	
Supply chain alternatives	Postponement, consolidation, partnerships, outsourcing; Logistics Service Providers (LSPs), supply chain conflicts.	
Supply chain developments	Efficient Consumer Response (ECR), supply chain integration, JIT, RFID	

Supply Chain Operations

Learning Outcomes The learner will:	Assessment Criteria The learner can:
3.1. Know how to identify and cost the separate activities within a supply chain.	3.1.1. Analyse the separate activities within a supply chain.
	3.1.2. Cost individual activities within a supply chain.
3.2. Understand the role and types of performance indicators in supply chain management.	3.2.1. Demonstrate how to manage a process of performance measurement and effect improvements.
3.3. Understand why an effective supply chain can operate as part of the marketing mix of an organisation.	3.3.1. Measure a supply chain's cost effectiveness and its contribution to profit.
3.4. Understand how and why supply chains respond to customer needs.	3.4.1. Analyse customer needs and effect supply chain improvements to meet customer requirements.
3.5. Understand the nature and purpose of benchmarking.	3.5.1. Demonstrate how to manage a process of benchmarking and effect improvements.

Indicative Content

Costing activities within a supply chain Appropriate supply chain activities,

traditional costing and asset deployment models, budgeting using standard times.

Performance indicators Traditional performance models, cross-

functional performance models.

The supply chain as part of the

marketing mix

Activity Based Costing (ABC), Direct Product Profitability, Economic Value

Added (EVA)

The nature and use of benchmarking Benchmarking, process management.

Supply Chain Improvement

Learning Outcomes The learner will:	Assessment Criteria The learner can:
4.1. Know how supply chain performance can be enhanced towards lean and agile systems.	4.1.1. Conduct and evaluate a supply chain audit.
4.2. Understand the different approaches to performance improvement.	4.2.1. Select and employ suitable approaches to improve supply chain performance.
	4.2.2. Determine an optimum supply chain solution.
	4.2.3. Develop a suitable implementation plan.
4.3. Understand the role of information processing in supply chain improvement.	4.3.1. Critically analyse information system structures.

Indicative Content		
Supply Chain performance enhancement	Supply Chain audits, Supply Chain improvement models, models for lean and agile chains, improvements towards agility, e-business, RFID, integrated improvement strategies.	
Approaches to performance improvement	The Seven Wastes, Supply chain mapping, Scott & Westbrook, the seven mapping tools, Six-Sigma model	
Information processing systems	Improvements towards agility, integrated improvement strategies, value chains, information system infrastructures.	

This page is intentionally blank

