

SUPPLY CHAIN MANAGEMENT

CHAPTER 1: AN INTRODUCTION TO SUPPLY CHAIN MANAGEMENT

1.1 Introduction

Learning Objectives

1.2 Concept of Supply chain management

1.2.1 Evolution of supply chain management

1.2.2 Definition of Supply chain management

1.2.3 Objectives of supply chain management

1.2.4 Importance of supply chain management

1.2.5 Different types of supply chain

Self Assessment Questions

1.3 Participants in supply chain management

Self Assessment Questions

1.4 Constituents in supply chain

Self Assessment Questions

1.5 Supply chain Organisation

Self Assessment Questions

1.6 Role of manager in supply chain

Self Assessment Questions

1.7 Growing demand of Supply Chain

1.8 Summary

1.9 Key Words

1.10 Case Study

1.11 Exercise

1.12 Answers for Self Assessment Questions

1.13 Suggested Books and e-References

CHAPTER 2: SUPPLY CHAIN MANAGEMENT DESIGN AND PROCESS

2.1 Introduction

Learning Objectives

2.2 Levels of Supply chain

2.3 Different flows in supply chain

2.4 Supply Chain Goals

Self Assessment Questions

2.5 Components under supply chain management

2.5.1 Supply chain configuration

2.5.2 Supply chain relationship

2.5.3 Supply chain coordination

Self Assessment Questions

2.6 Supply chain process

Self Assessment Questions

2.7 Aligning supply chain with business strategy

Self Assessment Questions

2.8 Supply Chain Cost drivers

2.9 Summary

2.10 Key Words

2.11 Case Study

2.12 Exercise

2.13 Answers for Self-Assessment Questions

2.14 Suggested Books and e-References

CHAPTER 3: SUPPLY CHAIN MODELS

3.1 Introduction

Learning Objectives

3.2 Supply chain models

3.3 Deterministic Model

3.4 Stochastic Model

3.5 Economic Model

3.6 Simulation Model

3.7 Summary

3.8 Key Words
3.9 Case Study
3.10 Exercise
3.11 Answers for Self Assessment Questions
3.12 Suggested Books and e-References

CHAPTER 4: SUPPLY CHAIN MANAGEMENT STRATEGIES AND DRIVERS

4.1 Introduction

Learning Objectives

4.2 Competitive supply chain strategies

Self Assessment Questions

4.3 Achieving strategic fit

Self Assessment Questions

4.4 Strategic supply chain decisions

Self Assessment Questions

4.5 Supply chain drivers

Self Assessment Questions

4.6 Summary

4.7 Key Words

4.8 Case Study

4.9 Exercise

4.10 Answers for Self Assessment Questions

4.11 Suggested Books and e-References

CHAPTER 5: LEAN AND AGILE SUPPLY CHAIN MANAGEMENT

5.1 Introduction

Learning Objectives

5.2 Lean manufacturing

5.3 Lean supply chain management

5.3.1 Lean supply principles

5.3.2 Drivers for lean supply chain

Self Assessment Questions

5.4 Lean process mapping tools

Self Assessment Questions

5.5 Agile supply chain concept

Self Assessment Questions

5.6 Agile supply chain framework

Self Assessment Questions

5.7 Summary

5.8 Key Words

5.9 Case Study

5.10 Exercise

5.11 Answers for Self Assessment Questions

5.12 Suggested Books and e-References

CHAPTER 6: SOURCING, PURCHASING AND PROCUREMENT IN SUPPLY CHAIN

6.1 Introduction

Learning Objectives

6.2 Concept of sourcing

6.2.1 Role of sourcing and outsourcing

6.2.2 Understanding Strategic sourcing

Self Assessment Questions

6.3 Segmenting the Supply Chain

Self Assessment Questions

6.4 Managing supply life cycle costs
Self Assessment Questions

6.5 Managing Supplier Relationships

6.5.1 Establishing Supplier Contracts
Self Assessment Questions

6.6 Third and fourth party logistics providers
Self Assessment Questions

6.7 Supplier scoring and assessment
Self Assessment Questions

6.8 Green logistics and reverse logistics
Self Assessment Questions

6.9 Mitigating Supplier Risks
Self Assessment Questions

6.10 Establishing Purchase ethics in supply chain
Self Assessment Questions

6.11 Summary
6.12 Key Words
6.13 Case Study
6.14 Exercise
6.15 Answers for Self Assessment Questions
6.16 Suggested Books and e-References

CHAPTER 7: MANAGING PRODUCT RETURNS IN REVERSE SUPPLY CHAINS

7.1 Introduction

Learning Objectives

7.2 Product returns- An introduction to Reverse Logistics

7.2.1 Reasons for product returns

7.2.2 Processing returns of new or excess products

7.2.3 Processing returns of used or defective products

7.3 Growing Revenues with easy returns

7.4 Managing closed loop supply chains

7.5 Handling unauthorized returns and fraudulent products

7.6 Summary

7.7 Key Words

7.8 Case Study

7.9 Exercise

7.10 Answers for Self Assessment Questions

7.11 Suggested Books and e-References

CHAPTER 8: PRICING AND REVENUE MANAGEMENT IN SUPPLY CHAIN MANAGEMENT

8.1 Introduction

Learning Objectives

8.2 Pricing and revenue management in supply chain management

8.2.1 Importance of pricing and revenue management in supply chain

Self Assessment Questions

8.3 Revenue management for multiple customer segments

Self Assessment Questions

8.4 Revenue management for perishable assets

Self Assessment Questions

8.5 Revenue management for Bulk and Spot customers

Self Assessment Questions

8.6 Revenue management for seasonable demand

Self Assessment Questions

8.7 Summary

8.8 Key Words

8.9 Case Study

8.10 Exercise

8.11 Answers for Self Assessment Questions

8.12 Suggested Books and e-References

CHAPTER 9: AGGREGATE PLANNING IN SUPPLY CHAIN MANAGEMENT

9.1 Introduction

Learning Objectives

9.2 Planning the Supply Chain

9.2.1 Balancing Aggregate Supply and aggregate Demand

9.2.2 Aligning resources with requirements

9.2.3 Analyzing customers

9.3 Concept of aggregate planning

9.3.1 Aggregate planning in supply chain management

9.4 Aggregate planning strategies

9.4.1 Aggregate planning using linear programming

9.4.2 Aggregate planning using excel

9.5 Problems with aggregate planning

9.6 Planning Production system and products

9.7 Planning Delivery system

9.8 Summary

9.9 Key Words

9.10 Case Study

9.11 Exercise

9.12 Answers for Self Assessment Questions

9.13 Suggested Books and e-References

CHAPTER 10: MANAGING DIGITAL SUPPLY CHAINS

10.1 Introduction

Learning Objectives

10.2 Concept of Digitalization

10.2.1 Evolution of digital supply chain

10.2.3 Role of digitalization in supply chain

10.2.4 Digitalising Products & Services

10.2.5 Integrating Planning, Execution and Visibility

10.2.6 Creating Customer Centricity

10.3 Steps towards digital supply chain

10.4 Supply Chain 4.0 – the next-generation digital supply chain

10.5 Managing Digital Supply chain

10.6 Summary

10.7 Key Words

10.8 Case Study

10.9 Exercise

10.10 Answers for Self Assessment Questions

10.11 Suggested Books and e-References

CHAPTER 11: INFORMATION TECHNOLOGY IN SUPPLY CHAIN MANAGEMENT

11.1 Introduction

Learning Objectives

11.2 Role of information technology in supply chain

Self Assessment Questions

11.3 IT framework of a supply chain

11.4 e commerce and supply chain

11.4.1 Electronic data interchange

11.4.2 Bar code scanning

Self Assessment Questions

11.5 Enterprise Resource Planning Tools

Self Assessment Questions

11.6 Summary

11.7 Key Words

11.8 Case Study

11.9 Exercise

11.10 Answers for Self Assessment Questions

11.11 Suggested Books and e-References

CHAPTER 12: CUSTOMER RELATIONSHIP MANAGEMENT FOR SUPPLY CHAIN MANAGEMENT

12.1 Introduction

Learning Objectives

12.2 Concept of CRM

12.2.1 Role of CRM in supply chain management

12.2.2 Reasons to use CRM in SCM

Self Assessment Questions

12.3 Importance of segmentation in supply chain efficiency by CRM

Self Assessment Questions

12.4 CRM confusion in SCM

Self Assessment Questions

12.5 Use of RFID in Supply Chain Management for Customer Service

Self Assessment Questions

12.6 Summary

12.7 Key Words

12.8 Case Study

12.9Exercise

12.10 Answers for Self Assessment Questions

12.11 Suggested Books and e-References