



Exam Preparation Course Learning Outcomes

CSCA

Certified Supply
Chain Analyst



International
Supply Chain
Education Alliance

CSCA exam preparation course

Learning Outcomes

Module 1: Overview

- What is a Supply Chain?
- Flows in a Supply Chain
- Examples of Supply Chains
- The Objective of a Supply Chain
- Linking Financial Measures to Supply Chain Operation Measures
- Revenues and costs
- Strategy
- Model for Strategic Fit

Module 2: Strategy

- Typical Functional Strategies
- Responsive versus Efficient
- Push/Pull Versions

Module 3: Framework for Discussion

- Sources of Costs and Revenues
- Drivers of Supply Chain Performance
- Information, Funds, and Product
- Basic Model
- Decision Issues

Module 4: Fundamental Issues

- Demand Common Terms
- Sales and Operations Planning
- Forecasting
- Supply Common Terms

Module 5: Aggregate Planning

- Objective
- Required Information
- Strategies
- Methods
- Examples

Module 6: Role of Inventory in the Supply Chain

- Fundamental Issues
- Inventory Types and Users
- Categories
- Functions and Costs
- Performance Measures
- ABC Analysis and Cycle Counting
- Economic Ordering Quantity (EOQ)
- Safety Stock

Module 7: Material Requirements Planning (MRP)

- Basic Model
- Inputs and Outputs
- Gross and Net Requirements
- MRP Management
- Capacity Planning
- Challenges

Module 8: Sourcing

- General issues
- The Role of Sourcing in a Supply Chain
- Benefits
- Supplier Scoring and Assessment
- Supplier Selection and Contracts
- Design Collaboration
- The Procurement Process
- Sourcing Planning and Analysis
- Making Sourcing Decisions in Practice

Module 9: Purchasing

- Purchase Order
- Electronic Data Interchange (EDI)
- Flow and Technology

Module 10: Manufacturing

- Facility Layout Strategies
- Manufacturing Strategies
- Manufacturing Technologies Examples

Module 11: Transportation

- The role of transportation in the supply chain
- Modes of transportation and their performance characteristics
- Design options for a transportation network
- Trade-offs in transportation design
- Tailored transportation
- Making transportation decisions in practice

Module 12: Warehousing and Distribution

- Warehousing Activities
- Warehousing and Storage Facility Layouts
- Random Stocking
- Customizing
- Cross-Docking

Module 13: Sales Order Fulfillment

- MRP Input and Output
- Gross and Net Requirements
- MRP Management
- Legacy of Our Planning Processes
- Demand Driven Requirements Planning

Module 14: Lean and Continuous Improvement Tools

- What is Lean?
- Characteristics of Lean
- Origins of Lean
- Tools & Techniques
- Fishbone, Scatter Diagrams, 5Why's, SPC, etc.
- What is Six Sigma?
- Six Sigma Project Team
- Define–Measure–Analyze–Improve–Control (DMAIC)

Module 15: Sustainability

- What is sustainability?
- Product life cycle considerations
- Utilize a systems view
- Goals for environmentally friendly designs
- Guidelines for Environmentally Friendly Designs
- Production process considerations
- Environmentally Friendly Production Processes
- Reduce, reuse, recycle

Module 16: Team Dynamics

- Organizational Structures
- Team Dynamics
- Customer–Supplier Relationships
- Manage Customer Relationships
- Practices for Dealing with Customers
- Collect Customer Information
- Understand Customer Needs
- Guiding Principles in Supplier Relationships
- Practices for dealing with customers

| Course Details

Pre-requisites: None

Classroom time: 15 hours

| Certification Exam Details

Assessment Method: Multiple Choice Exam

Pass Grade: 70%

Regulatory Authority: IISB
(ISCEA International Standards Board)

| About IISB

IISB (ISCEA International Standards Brand) is the authority behind ISCEA's International Supply Chain Standards. It is conformed by a 24 member Board of Directors led by a Secretary–General and a President. IISB designates multiple committees conformed by a selected group of Global Supply Chain Experts from Public and Private Organizations, to develop the BoK (Body of Knowledge) for each certification program.

| About ISCEA

The International Supply Chain Education Alliance (ISCEA) was the first organization certifying Supply Chain Professionals around the globe, and it remains the worldwide authoritative resource for Supply Chain Career Validation with thousands of certificate holders commanding top-tier salaries.

ISCEA's mission is to provide Total Supply Chain Knowledge to manufacturing and service industry professionals through Education, Certification and Recognition.

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