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# LEARNING OUTCOME

VERSION 1.0

# CSCA

Certified Supply Chain Analyst



Contact Us

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## 1 REGULATORY AUTHORITY OF YOUR TRAINING PROGRAMS:

### ISCEA International Standards Board (IISB):

IISB (ISCEA International Standards Board) is the world leader in developing and publishing the International Supply Chain Standards. IISB works with Public and Private Organizations to set Global Supply Chain Standards. IISB also works with Governments and Trade Organizations on their Supply Chain Readiness Initiatives. IISB is made up of a 24 member Board of Directors led by a Secretary-General and a President. IISB delegates are ISCEA management, instructors, key ISCEA staff members, ISCEA AKPs (Authorized Knowledge Providers) and selected members of their staff, Ministerial level Representatives of Governments, ISCEA Country Advisory Board Members, and selected group of Global Supply Chain Experts.

## 2 LEARNING OUTCOMES:

Provide a basic understanding of a "supply chain" to those new to the field.

### CSCA PROGRAM CONTENT:

<p><b>Module 1</b></p> <p><b>Overview</b></p> <ul style="list-style-type: none"> <li>What is a Supply Chain?</li> <li>Flows in a Supply Chain</li> <li>Examples of Supply Chains</li> <li>The Objective of a Supply Chain</li> <li>Linking Financial Measures to Supply Chain Operation Measures</li> <li>Revenues and costs</li> <li>Strategy</li> <li>Model for Strategic Fit</li> </ul>	<ul style="list-style-type: none"> <li>Required Information</li> <li>Strategies</li> <li>Methods</li> <li>Examples</li> </ul>
<p><b>Module 2</b></p> <p><b>Strategy</b></p> <ul style="list-style-type: none"> <li>Typical Functional Strategies</li> <li>Responsive versus Efficient</li> <li>Push/Pull Versions</li> </ul>	<p><b>Module 6</b></p> <p><b>Role of Inventory in the Supply Chain</b></p> <ul style="list-style-type: none"> <li>Fundamental Issues</li> <li>Inventory Types and Users</li> <li>Categories</li> <li>Functions and Costs</li> <li>Performance Measures</li> <li>ABC Analysis and Cycle Counting</li> <li>Economic Ordering Quantity (EOQ)</li> <li>Safety Stock</li> </ul>
<p><b>Module 3</b></p> <p><b>Framework for Discussion</b></p> <ul style="list-style-type: none"> <li>Sources of Costs and Revenues</li> <li>Drivers of Supply Chain Performance</li> <li>Information, Funds, and Product</li> <li>Basic Model</li> <li>Decision Issues</li> </ul>	<p><b>Module 7</b></p> <p><b>Material Requirements Planning (MRP)</b></p> <ul style="list-style-type: none"> <li>Basic Model</li> <li>Inputs and Outputs</li> <li>Gross and Net Requirements</li> <li>MRP Management</li> <li>Capacity Planning</li> <li>Challenges</li> </ul>
<p><b>Module 4</b></p> <p><b>Fundamental Issues</b></p> <ul style="list-style-type: none"> <li>Demand Common Terms</li> <li>Sales and Operations Planning</li> <li>Forecasting</li> <li>Supply Common Terms</li> </ul> <p><b>Module 5</b></p> <p><b>Aggregate Planning</b></p> <ul style="list-style-type: none"> <li>Objective</li> </ul>	<p><b>Module 8</b></p> <p><b>Sourcing</b></p> <ul style="list-style-type: none"> <li>General issues</li> <li>The Role of Sourcing in a Supply Chain</li> <li>Benefits</li> <li>Supplier Scoring and Assessment</li> <li>Supplier Selection and Contracts</li> <li>Design Collaboration</li> <li>The Procurement Process</li> <li>Sourcing Planning and Analysis</li> <li>Making Sourcing Decisions in Practice</li> </ul>

## CSCA PROGRAM CONTENT:

Module 9			Module 14										
<b>Purchasing</b> <ul style="list-style-type: none"><li>• Purchase Order</li><li>• Electronic Data Interchange (EDI)</li><li>• Flow and Technology</li></ul> Module 10			<b>Lean and Continuous Improvement Tools</b> <ul style="list-style-type: none"><li>• What is Lean?</li><li>• Characteristics of Lean</li><li>• Origins of Lean</li><li>• Tools &amp; Techniques</li><li>• Fishbone, Scatter Diagrams, 5Why's, SPC, SPC etc.</li><li>• What is Six Sigma?</li><li>• Six Sigma Project Team</li><li>• Define-Measure-Analyze-Improve-Control (DMAIC)</li></ul> Module 15										
<b>Manufacturing</b> <ul style="list-style-type: none"><li>• Facility Layout Strategies</li><li>• Manufacturing Strategies</li><li>• Manufacturing Technologies Examples</li></ul> Module 11			<b>Sustainability</b> <ul style="list-style-type: none"><li>• What is sustainability?</li><li>• Product life cycle considerations</li><li>• Utilize a systems view</li><li>• Goals for environmentally friendly designs</li><li>• Guidelines for Environmentally Friendly Designs</li><li>• Production process considerations</li><li>• Environmentally Friendly Production Processes</li><li>• Reduce, reuse, recycle</li></ul> Module 16										
<b>Transportation</b> <ul style="list-style-type: none"><li>• The role of transportation in the supply chain</li><li>• Modes of transportation and their performance characteristics</li><li>• Design options for a transportation network</li><li>• Trade-offs in transportation design</li><li>• Tailored transportation</li><li>• Making transportation decisions in practice</li></ul> Module 12			<b>Team Dynamics</b> <ul style="list-style-type: none"><li>• Organizational Structures</li><li>• Team Dynamics</li><li>• Customer-Supplier Relationships</li><li>• Manage Customer Relationships</li><li>• Practices for Dealing with Customers</li><li>• Collect Customer Information</li><li>• Understand Customer Needs</li><li>• Guiding Principles in Supplier Relationships</li><li>• Practices for dealing with customers</li></ul>										
02	<b>Warehousing and Distribution</b> <ul style="list-style-type: none"><li>• Warehousing Activities</li><li>• Warehousing and Storage Facility Layouts</li><li>• Random Stocking</li><li>• Customizing</li><li>• Cross-Docking</li></ul> Module 13												
	<b>Sales Order Fulfillment</b> <ul style="list-style-type: none"><li>• MRP Input and Output</li><li>• Gross and Net Requirements</li><li>• MRP Management</li><li>• Legacy of Our Planning Processes</li><li>• Demand Driven Requirements Planning</li></ul>												
3	<b>ASSESSMENT CRITERIA:</b> <table><tr><td><b>Modules</b></td><td><b>%</b></td></tr><tr><td>1-5</td><td>35</td></tr><tr><td>6-8</td><td>31</td></tr><tr><td>9-16</td><td>34</td></tr></table>		<b>Modules</b>	<b>%</b>	1-5	35	6-8	31	9-16	34	6	<b>TOTAL CLASSROOM TRAINING HOURS FOR EACH MODULE SHOWN BELOW:</b> <ul style="list-style-type: none"><li>• 15 total hours</li></ul>	
<b>Modules</b>	<b>%</b>												
1-5	35												
6-8	31												
9-16	34												
4	<b>ASSESSMENT METHODS:</b> <ul style="list-style-type: none"><li>• Multiple choice exam</li></ul>		7	<b>IS ON THE JOB TRAINING (OJT) MANDATORY:</b> <ul style="list-style-type: none"><li>• No</li></ul>									
5	<b>GRADING SYSTEMS (IF ANY), SUCH AS CREDITS:</b> <ul style="list-style-type: none"><li>• Score on exam must be 70% or higher</li></ul>												



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