

CSCP On-Demand Training for Self-Study Professionals

Are you preparing for the CSCP certification through self-study? As an experienced supply chain professional, you already have strong practical knowledge—but some topics may still need expert clarification. Fhyzics Business Consultants bridges that gap with on-demand, topic-oriented CSCP training sessions designed specifically for self-learners.

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Quality Tools

1. Seven Basic Quality Tools (7 QC Tools)

The seven basic quality tools—Cause-and-Effect Diagram, Check Sheet, Control Chart, Histogram, Pareto Chart, Scatter Diagram, and Flowchart—are fundamental instruments for process analysis and problem-solving. These tools enable teams to identify root causes, visualize data, detect trends, and prioritize improvement actions within supply chain and manufacturing environments.

2. Cause-and-Effect (Fishbone or Ishikawa) Diagram
This tool helps identify and categorize potential causes of a problem into key areas like Man, Machine, Method,
Material, Measurement, and Environment. It visually organizes brainstorming results and directs attention to underlying process weaknesses, making it a cornerstone of root cause analysis and quality improvement.

3. Check Sheet

A Check Sheet is a structured, preformatted form used to collect real-time data systematically. It ensures consistency in data gathering and simplifies analysis by recording frequency of defects, errors, or events. Check Sheets provide the foundation for fact-based decisions and quantitative process evaluation.

4. Control Chart

Control charts graphically monitor process performance over time. They distinguish between **common cause variation** (inherent) and **special cause variation** (abnormal).

By using upper and lower control limits, control charts help determine process stability and enable proactive quality control before defects occur.

5. Histogram

A Histogram displays the frequency distribution of data, showing process variation and patterns. It helps visualize whether a process is centered, skewed, or spread excessively. By analyzing shape and spread, organizations can identify sources of variability and opportunities for standardization.

6. Pareto Chart

Based on the **80/20 principle**, Pareto Charts prioritize issues contributing most to problems. They display categories in descending order of frequency or impact, helping teams focus on "vital few" causes that lead to the majority of defects—driving targeted quality improvement efforts.

7. Scatter Diagram

A Scatter Diagram visually plots relationships between two variables to detect correlation. It helps determine whether variations in one factor affect another, revealing possible cause-and-effect relationships. This tool is useful for validating assumptions in process improvement and quality control initiatives.

8. Flowchart (Process Map)

Flowcharts visually represent the steps of a process from start to finish. They identify redundancies, bottlenecks, and inefficiencies that impact quality. Process maps are critical

for standardization, training, and designing improved workflows that reduce errors and enhance productivity.

9. Failure Modes and Effects Analysis (FMEA)

FMEA systematically identifies potential failure modes, their causes, and consequences. Each risk is rated based on **Severity, Occurrence, and Detection**, producing a Risk Priority Number (RPN). FMEA enables proactive mitigation of failures before they occur, improving reliability and customer satisfaction.

10. Root Cause Analysis (RCA)

RCA identifies the underlying causes of defects rather than treating symptoms. Using tools like the **Five Whys** or **Fishbone Diagram**, RCA helps uncover systemic issues and prevent recurrence. It's essential for continuous quality improvement and operational excellence.

11. Statistical Process Control (SPC)

SPC uses statistical techniques to monitor and control process behavior. Through control charts and process capability analysis, SPC detects variation patterns, enabling corrective action before defects occur. It ensures process consistency, stability, and long-term quality improvement.

12. Process Capability (Cp, Cpk)

Process capability indices (Cp, Cpk) measure how well a process meets specification limits. Higher values indicate consistent, capable processes. Capability analysis quantifies variation, guides process adjustments, and ensures production quality aligns with customer and regulatory requirements.

13. 5 Whys Technique

The 5 Whys is a simple but powerful problem-solving tool that involves asking "Why?" five times to uncover root causes. It avoids superficial fixes by drilling deeper into causal factors, encouraging critical thinking and process-level corrective action.

14. Quality Function Deployment (QFD)

QFD translates customer needs (the "voice of the customer") into technical specifications using the **House of Quality** matrix. It ensures that design, production, and supply chain processes align with customer expectations, improving product quality and satisfaction.

15. Design of Experiments (DOE)

DOE is a statistical method used to understand cause-andeffect relationships among process variables. It helps identify optimal conditions, minimize variability, and improve quality performance. DOE supports data-driven decision-making in manufacturing, process design, and quality engineering.

16. Cause-and-Effect Matrix

This matrix links potential process inputs (causes) to outputs (effects), quantifying their impact. It prioritizes improvement areas based on their contribution to key performance metrics. The tool bridges process analysis and FMEA for targeted quality interventions.

17. Gemba Walk

A **Gemba Walk** involves leaders or managers visiting the actual workplace (Gemba) to observe processes firsthand,

engage with employees, and identify improvement opportunities. It strengthens understanding of real issues and reinforces a culture of continuous quality improvement.

18. Poka-Yoke (Error Proofing)

Poka-Yoke focuses on designing processes to prevent human or mechanical errors before they occur. Examples include sensors, visual cues, or automated checks. It supports zero-defect performance by making incorrect actions impossible or immediately detectable.

19. Taguchi Methods

Developed by Genichi Taguchi, these methods optimize product and process design through robust design principles that minimize variation and external noise. Taguchi emphasizes quality built into design, reducing the cost of poor quality and enhancing reliability.

20. Histogram of Capability (Process Stability Chart)

A capability histogram combines frequency distribution with specification limits to assess process performance visually. It helps determine whether a process consistently meets customer requirements, supporting decisions about reengineering, standardization, or quality control interventions.

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- 6. Warehouse Layout and Operations Efficiency
- 7. Supply Chain Risk Management
- 8. Supply Chain Performance Metrics (KPIs)
- 9. Lean Supply Chain Practices
- 10. Agile and Responsive Supply Chains
- 11. Sales and Operations Planning (S&OP)
- 12. Supply Chain Network Design
- 13. Supply Chain Digital Transformation
- 14. AI and Data Analytics in Supply Chain
- 15. Supply Chain Sustainability and Green Logistics
- 16. Reverse Logistics and Returns Management
- 17. Supply Chain Collaboration and Integration
- 18. Supplier Relationship Management in SCM
- 19. Global Supply Chain Strategy
- 20. Transportation Management Systems (TMS)
- 21. Inventory Optimization Models
- 22. Demand-Driven MRP (DDMRP) Concepts
- 23. Blockchain Applications in Supply Chain
- 24. Supply Chain Cost Reduction Techniques
- 25. SCOR Model and Process Improvement

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- 31. Import-Export Procedures and Documentation
- 32. Managing Third-Party Logistics (3PL) Providers
- 33. Supply Chain Collaboration Technologies
- 34. Production Planning and Scheduling
- 35. Strategic Supply Chain Design Using Case Studies
- 36. Circular Economy in Supply Chain
- 37. Vendor-Managed Inventory (VMI)
- 38. Transportation Optimization Techniques
- 39. E-Commerce Supply Chain Models
- 40. Omni-Channel Fulfillment Strategies
- 41. Warehouse Automation and Robotics
- 42. SCOR DS Roadmap for Supply Chain Excellence
- 43. Customer-Centric Supply Chain Strategies
- 44. Supply Chain Finance and Working Capital Management
- 45. Supply Chain Data Visualization Using Power BI
- 46. Strategic Sourcing in Supply Chain Context
- 47. Supply Chain Benchmarking and Best Practices
- 48. Integrated Business Planning (IBP)
- 49. Supply Chain in Crisis Management and Recovery
- 50. Future Trends and Technologies in Supply Chain

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- 2. Strategic Sourcing and Category Management
- 3. Supplier Selection and Evaluation
- 4. Contract Management Essentials
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- 7. E-Procurement and Digital Tools
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- 9. Risk Management in Procurement
- 10. Supplier Relationship and Performance Management
- 11. Sustainable and Ethical Procurement
- 12. Total Cost of Ownership (TCO) Analysis
- 13. Make-or-Buy Decision Frameworks
- 14. Procurement Policies and Governance
- 15. Procurement in Public vs. Private Sectors
- 16. Procurement Audit and Compliance
- 17. Procurement Data Analytics and Reporting
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- 20. Category Strategy Development
- 21. Managing Global and Offshore Procurement
- 22. Negotiation Simulation Workshop
- 23. Contract Law for Procurement Managers
- 24. Cost Reduction Strategies in Procurement
- 25. Supplier Risk Assessment Models

Micro-Learning Programs in Procurement ...



- 26. Procurement Process Mapping and Improvement
- 27. Procurement Automation and AI Applications
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- 29. Procurement Ethics and Transparency
- 30. Procurement in the Digital Supply Chain
- 31. Vendor Consolidation Strategies
- 32. Spend Analysis and Optimization
- 33. Demand Forecasting for Procurement
- 34. E-Auction and Reverse Bidding Techniques
- 35. Inventory and Procurement Alignment
- 36. Procurement in Project-Based Organizations
- 37. Supplier Onboarding and Development
- 38. Procurement Market Intelligence
- 39. Measuring Supplier Innovation
- 40. Procurement in Times of Supply Disruption
- 41. Cross-Functional Collaboration in Procurement
- 42. Writing Effective RFPs, RFQs, and RFIs
- 43. Contract Negotiation Best Practices
- 44. Green Procurement and Circular Economy
- 45. Legal Aspects of Procurement Contracts
- 46. Performance-Based Contracting
- 47. Procurement Leadership and Strategic Influence
- 48. Cost Avoidance and Value Creation in Procurement
- 49. Managing Procurement with Power BI Dashboards
- 50. Future Skills and Trends in Procurement



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