

The Certified Supplier Quality Professional works with an organization's supply chain and suppliers to continuously improve performance of key system components (increase lifecycle, reduce scrap, improve repair processes) by implementing process controls and developing quality assurance plans. The Certified Supplier Quality Professional tracks data, identifies improvement projects, and manages cross functional implementation to improve performance of key components and suppliers

Body of Knowledge

Supplier Strategy

A. **Supply Chain Vision/Mission** (Apply)

Assist in the development and communication of the supply chain vision/mission statement.

B. **Supplier Lifecycle Management** (Apply)

1. Supplier Selection (Create)

Develop the process for supplier selection and qualification including the identification of sub-tier suppliers, using tools such as SIPOC and decision analysis.

2. Performance Monitoring (Create)

Develop the supplier performance monitoring system including; expected levels of performance, process reviews, performance evaluations, improvement plans, and exit strategies.

3. Supplier Classification System (Create)

Define a supplier classification system, e.g. non-approved, approved, preferred, certified, partnership, and disqualified.

4. Partnerships and Alliances (Analyze)

Identify and analyze strategies for developing customer-supplier partnerships and alliances.

C. **Supply Chain Cost Analysis** (Analyze)

1. Cost Reduction
(Analyze)
Identify and apply relevant inputs to prioritize cost reduction opportunities.
 - 2 Supply Chain Rationalization
(Analyze)
Interpret and analyze the optimization of a supply base to improve spending and leverage investments into supplier quality, or risk reduction.
 3. Make/Buy Decisions
(Analyze)
Provide input on make/buy decisions by using internal and external capability analysis. Apply tools such as, SWOT analysis and use historical performance to analyze requirements.
- D. Supplier Agreements or Contracts** (Apply)
Review and provide input for developing terms and conditions that govern supplier relationships to ensure quality considerations are addressed.
- E. Deployment of Strategy and Expectations** (Apply)
Communicate strategy internally, and communicate expectations to suppliers externally.

Risk Management (14 Questions)

- F. Strategy** (Create)
1. System
(Create) Develop a risk-based approach to manage the supply base, including business continuity and contingency planning.
 2. Product/Service
(Evaluate)
Develop and implement a risk mitigation plan to minimize, monitor, and/or control risks.
 3. Prevention Strategies
(Evaluate)
Identify and evaluate strategies and techniques such as supply chain mapping, avoidance, detection and mitigation used to prevent the introduction of counterfeit parts, materials, and services.
- G. Analysis and Mitigation** (Evaluate)
1. Analysis
(Evaluate)
Identify, assess and prioritize risks to supplier quality using tools such as, decision

analysis (DA), failure mode effects analysis (FMEA), fault tree analysis (FTA), and process auditing.

2. Mitigation Control

Develop and deploy controls such as inspection or test plan. Prioritize mitigation activities and sustain a risk mitigation plan appropriate to the risk of the product/service. (Create)

3. Mitigation Effectiveness

(Create)

Verify the effectiveness of the control plan and improve if necessary, using continuous improvement methods such as plan-do-check-act (POCA), lean and product auditing tools.

Supplier Selection and Part Qualification (30 Questions)

A. Product/Service Requirements Definition

1. Internal Design Reviews