Supplier Quality Management in Manufacturing Training Course

Professional Development Training Course Outline

Category	Manufacturing	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today’s highly competitive and globally integrated manufacturing landscape, Supplier Quality Management (SQM) has become a critical pillar for ensuring product excellence, regulatory compliance, cost efficiency, and supply chain resilience. Organizations are increasingly dependent on complex supplier networks, making it essential to implement robust supplier evaluation, quality assurance systems, and risk-based monitoring frameworks to prevent defects, disruptions, and non-conformance issues. Supplier Quality Management in Manufacturing Training Course is designed to equip professionals with advanced capabilities in supplier qualification, quality auditing, performance scorecards, and continuous improvement strategies aligned with global manufacturing standards.

The course provides a comprehensive understanding of modern quality management systems (QMS), lean supplier integration, ISO 9001 compliance, Six Sigma methodologies, and digital supplier quality tools. Participants will gain hands-on knowledge in managing supplier lifecycle processes, improving incoming material quality, and building strategic supplier partnerships. With a strong focus on real-world manufacturing challenges, Industry 4.0 integration, and data-driven decision-making, this program empowers professionals to drive operational excellence and strengthen end-to-end supply chain quality performance.

Programme Curriculum

Supplier Quality Management in Manufacturing Training Course

Introduction

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Course Duration

10 days

Course Objectives

1. Master Supplier Quality Management (SQM) frameworks
2. Implement ISO 9001:2015 compliance in supplier systems
3. Develop supplier evaluation and qualification models
4. Apply Lean Manufacturing and Six Sigma in supplier processes
5. Strengthen supply chain risk management strategies
6. Build supplier performance scorecards and KPIs
7. Conduct advanced supplier auditing techniques
8. Improve incoming inspection and defect prevention systems
9. Enhance root cause analysis (RCA) and CAPA implementation
10. Integrate Industry 4.0 and digital quality tools
11. Optimize supplier collaboration and development programs
12. Reduce cost of poor quality (COPQ) in supply chain
13. Establish continuous improvement (Kaizen) in supplier quality systems

Target Audience

- Quality Assurance Engineers & Managers
- Supply Chain & Procurement Professionals
- Manufacturing & Production Managers
- Supplier Development Engineers
- Operations & Plant Managers
- Compliance & Regulatory Officers
- Industrial Engineers & Process Engineers
- Logistics and Vendor Management Teams

Course Modules

Module 1: Introduction to Supplier Quality Management

- SQM fundamentals and importance in manufacturing
- Supplier lifecycle management overview
- Quality integration in supply chain

- Global standards and compliance requirements
- Case Study: Automotive OEM supplier failure impact analysis

Module 2: ISO 9001:2015 in Supplier Systems

- ISO framework and clauses
- Supplier compliance mapping
- Documentation control systems
- Audit readiness techniques
- Case Study: ISO non-conformance in electronics supplier

Module 3: Supplier Selection & Qualification

- Vendor evaluation criteria
- Risk-based supplier selection
- Qualification audits
- Supplier onboarding process
- Case Study: Supplier selection failure in aerospace parts

Module 4: Supplier Performance Management

- KPI development and tracking
- Supplier scorecards
- Delivery and quality metrics
- Performance benchmarking
- Case Study: FMCG supplier delay optimization

Module 5: Quality Planning in Supply Chain

- Advanced Product Quality Planning (APQP)
- Control plans development
- Process validation
- Supplier readiness assessment
- Case Study: Medical device supplier quality planning

Module 6: Supplier Auditing Techniques

- Audit planning and execution
- Process and system audits
- Non-conformance identification
- Audit reporting techniques
- Case Study: Supplier audit uncovering hidden defects

Module 7: Incoming Quality Inspection (IQC)

- Inspection methodologies
- Sampling techniques (AQL)
- Defect categorization
- Inspection optimization
- Case Study: Defective raw material in food manufacturing

Module 8: Root Cause Analysis (RCA)

- 5 Why analysis
- Fishbone diagram
- Fault tree analysis
- Corrective action planning
- Case Study: Recurring defect in automotive components

Module 9: Corrective and Preventive Action (CAPA)

- CAPA lifecycle
- Documentation systems
- Verification of effectiveness
- Supplier CAPA integration
- Case Study: Electronics defect CAPA resolution

Module 10: Lean Supplier Development

- Lean principles in supplier systems
- Waste reduction strategies
- Just-in-time (JIT) integration
- Continuous flow improvement
- Case Study: Lean transformation in textile supplier

Module 11: Six Sigma in Supplier Quality

- DMAIC methodology
- Process capability analysis
- Statistical tools in quality
- Defect reduction strategies
- Case Study: Six Sigma in semiconductor supplier

Module 12: Supplier Risk Management

- Risk identification techniques
- Supply chain disruption analysis
- Mitigation planning
- Business continuity planning
- Case Study: Global pandemic supply disruption

Module 13: Digital Supplier Quality Systems

- Industry 4.0 integration
- ERP and QMS systems
- AI in supplier monitoring
- Real-time dashboards
- Case Study: Smart factory supplier monitoring system

Module 14: Supplier Collaboration & Development

- Supplier partnership models
- Joint improvement programs
- Training and capability building
- Supplier innovation programs

- Case Study: Automotive supplier co-development success

Module 15: Continuous Improvement in SQM

- Kaizen methodology
- PDCA cycle implementation
- Performance optimization
- Sustainability in supplier quality
- Case Study: Long-term supplier quality excellence program

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com