Quality Auditing 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

Quality Auditing in Manufacturing is a critical discipline designed to ensure ISO 9001 compliance, process optimization, defect reduction, and continuous improvement across production systems. In today's highly competitive industrial landscape, organizations must adopt robust quality management systems (QMS), lean manufacturing principles, and Six Sigma methodologies to maintain global standards and customer satisfaction. Quality Auditing in Manufacturing Training Course equips professionals with practical auditing skills to identify non-conformities, enhance operational efficiency, and drive zero-defect manufacturing culture.

This comprehensive program focuses on developing expertise in internal audits, supplier audits, process validation, regulatory compliance, and risk-based thinking. Participants will gain hands-on knowledge of modern auditing tools, documentation control systems, and data-driven quality assessment techniques. The course is aligned with global manufacturing standards, making it ideal for professionals aiming to strengthen quality assurance, operational excellence, and manufacturing sustainability.

Programme Curriculum

Quality Auditing in Manufacturing Training Course

Introduction

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Course Duration

10 days

Course Objectives

1. Master ISO 9001:2015 quality auditing standards
2. Develop skills in internal and external audit execution
3. Understand lean manufacturing quality integration
4. Apply Six Sigma quality control techniques
5. Improve process capability and defect reduction strategies
6. Conduct effective supplier quality assessments
7. Strengthen root cause analysis (RCA) methodologies
8. Implement risk-based auditing approaches
9. Enhance compliance and regulatory inspection readiness
10. Build expertise in non-conformance reporting systems
11. Utilize statistical process control (SPC) tools
12. Improve continuous improvement (Kaizen) culture
13. Achieve operational excellence in manufacturing systems

Target Audience

1. Quality Assurance Engineers
2. Manufacturing Managers
3. Internal Auditors
4. Production Supervisors
5. Process Improvement Specialists
6. Compliance Officers
7. Supply Chain Quality Analysts
8. Industrial Engineering Graduates

Course Modules

Module 1: Introduction to Quality Auditing

- Basics of auditing principles
- Types of manufacturing audits
- Audit lifecycle understanding
- Role of auditors in production
- Importance of compliance systems
- **Case Study:** Audit failure impact in automotive manufacturing plant

Module 2: ISO 9001:2015 Fundamentals

- Quality management principles
- Clause-by-clause understanding

- Documentation requirements
- Audit alignment with ISO standards
- Certification process overview
- **Case Study:** ISO certification gap analysis in electronics factory

Module 3: Internal Audit Planning

- Audit scheduling techniques
- Risk-based planning
- Checklist preparation
- Resource allocation
- Audit scope definition
- **Case Study:** Internal audit planning in FMCG industry

Module 4: Audit Execution Techniques

- On-site inspection methods
- Evidence collection strategies
- Interview techniques
- Process verification
- Real-time reporting
- **Case Study:** Production line audit in textile manufacturing

Module 5: Process Auditing in Manufacturing

- Process flow analysis
- Bottleneck identification
- Standard operating procedures (SOPs)
- Process validation checks
- Efficiency measurement
- **Case Study:** Process deviation in food processing plant

Module 6: Supplier Quality Audits

- Vendor assessment criteria
- Supplier performance metrics
- Supply chain risk evaluation
- Audit reporting structure
- Vendor compliance tracking
- **Case Study:** Supplier defect issue in automotive supply chain

Module 7: Non-Conformance Management

- NCR identification
- Classification of defects
- Reporting systems
- Corrective action plans
- Preventive actions
- **Case Study:** Non-conformance in pharmaceutical packaging

Module 8: Root Cause Analysis (RCA)

- 5 Why technique
- Fishbone diagram usage
- Data-driven investigation
- Problem-solving tools
- Corrective strategy design
- **Case Study:** Equipment failure in steel manufacturing plant

Module 9: Statistical Process Control (SPC)

- Control charts
- Process variation analysis
- Capability indices
- Data interpretation
- Quality trend monitoring
- **Case Study:** SPC application in electronics assembly

Module 10: Lean Manufacturing Audits

- Waste identification (7 wastes)
- Value stream mapping
- Lean compliance checks
- Continuous flow analysis
- Efficiency improvement audits
- **Case Study:** Lean transformation in automotive plant

Module 11: Six Sigma Quality Auditing

- DMAIC methodology
- Defect reduction tools
- Sigma level measurement
- Process improvement audits
- Quality benchmarking
- **Case Study:** Six Sigma project in packaging industry

Module 12: Documentation & Reporting

- Audit report writing
- Evidence documentation
- Compliance records
- Digital audit tools
- Report validation techniques
- **Case Study:** Audit reporting failure in chemical plant

Module 13: Risk-Based Auditing

- Risk identification methods
- Risk prioritization
- Control measures
- Impact analysis
- Mitigation planning
- **Case Study:** Risk audit in aerospace manufacturing

Module 14: Continuous Improvement Systems

- Kaizen implementation
- PDCA cycle usage
- Employee involvement
- Performance tracking
- Improvement audits
- **Case Study:** Continuous improvement in consumer goods factory

Module 15: Advanced Manufacturing Audit Systems

- Smart manufacturing audits
- AI-driven quality tools
- IoT-based inspection systems
- Digital transformation in audits
- Predictive quality analytics
- **Case Study:** Smart factory audit in Industry 4.0 environment

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