Lean Manufacturing Auditing Training Course

Professional Development Training Course Outline

Category	Manufacturing	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Lean Manufacturing Auditing Training Course is designed to equip professionals with advanced capabilities in Lean assessment, operational excellence, waste elimination, and continuous improvement auditing. This course integrates globally recognized Lean principles such as 5S, Kaizen, Value Stream Mapping (VSM), Just-in-Time (JIT), and Six Sigma thinking to help organizations achieve maximum productivity with minimal waste. Participants will develop the ability to systematically evaluate manufacturing systems and identify inefficiencies that impact cost, quality, delivery, and safety performance.

In today’s highly competitive industrial environment, organizations demand professionals who can perform Lean audits, process optimization reviews, and performance gap analysis using data-driven methodologies. This training empowers learners with practical tools, audit frameworks, and real-world case applications to transform traditional production systems into agile, efficient, and customer-centric operations aligned with Industry 4.0 Lean transformation strategies.

Programme Curriculum

Lean Manufacturing Auditing Training Course

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Course Duration

5 days

Course Objectives

1. Master Lean Manufacturing Principles & Operational Excellence Frameworks
2. Conduct effective Lean Audit Assessments in production environments
3. Identify and eliminate Muda (waste), Mura (variation), and Muri (overburden)
4. Apply 5S workplace organization and standardization audits
5. Develop competency in Value Stream Mapping (VSM) analysis
6. Strengthen Kaizen continuous improvement implementation skills
7. Evaluate production efficiency using KPI and OEE metrics
8. Perform root cause analysis using Lean Six Sigma tools
9. Improve supply chain Lean integration and flow optimization
10. Implement Just-in-Time (JIT) and Kanban audit systems
11. Enhance quality management and defect reduction audits
12. Build capability in process standardization and compliance auditing
13. Drive digital Lean transformation and smart manufacturing audits

Target Audience

1. Manufacturing Engineers & Production Supervisors
2. Quality Assurance & Quality Control Managers
3. Lean Manufacturing & Continuous Improvement Specialists
4. Industrial Engineers & Process Engineers
5. Operations & Plant Managers
6. Supply Chain & Logistics Professionals
7. Internal Auditors & Compliance Officers
8. Engineering & Technical Graduates entering manufacturing sector

Course Modules

Module 1: Fundamentals of Lean Manufacturing & Audit Systems

- Lean philosophy and Toyota Production System (TPS)
- Types of manufacturing waste identification
- Lean audit lifecycle and framework design
- Key Lean performance indicators (KPIs)
- Audit scoring systems and benchmarking
- **Case Study:** Toyota production efficiency transformation through Lean auditing practices

Module 2: 5S Workplace Organization Audit

- Sort, Set in Order, Shine, Standardize, Sustain audits
- Workplace efficiency evaluation techniques
- Visual management system audits
- Safety compliance integration in 5S

- Sustaining Lean culture through audits
- **Case Study:** 5S implementation failure vs success in automotive assembly plant

Module 3: Value Stream Mapping (VSM) & Process Flow Audit

- Current state vs future state mapping
- Bottleneck identification techniques
- Lead time and cycle time analysis
- Material and information flow auditing
- Lean process redesign strategies
- **Case Study:** Reducing lead time in electronics manufacturing using VSM

Module 4: Kaizen & Continuous Improvement Auditing

- Kaizen event planning and evaluation
- Employee-driven improvement systems
- PDCA (Plan-Do-Check-Act) cycle auditing
- Idea management systems
- Productivity improvement tracking
- **Case Study:** Kaizen-driven productivity boost in FMCG industry

Module 5: Lean Six Sigma & Root Cause Analysis Audits

- DMAIC methodology in auditing
- 5 Whys and Fishbone analysis
- Defect tracking and process variation audits
- Statistical process control (SPC)
- Quality improvement frameworks
- **Case Study:** Defect reduction in pharmaceutical manufacturing using Six Sigma audits

Module 6: Just-in-Time (JIT) & Inventory Control Audits

- Inventory waste analysis
- Kanban system evaluation
- Supplier integration audits
- Production scheduling efficiency
- Demand-driven manufacturing systems
- **Case Study:** Inventory cost reduction in automotive supply chain using JIT audits

Module 7: Digital Lean & Smart Manufacturing Auditing

- Industry 4.0 integration with Lean systems
- IoT-based production monitoring audits
- AI-driven predictive maintenance evaluation
- Digital dashboards for Lean KPIs
- Automation efficiency audits
- **Case Study:** Smart factory transformation using digital Lean auditing in Germany

Module 8: Lean Audit Reporting & Implementation Strategy

- Audit report writing and documentation standards
- Non-conformance reporting systems

- Action plan development and tracking
- Leadership communication in Lean audits
- Sustaining Lean transformation roadmap
- **Case Study:** Enterprise-wide Lean audit implementation in global manufacturing firm

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	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

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

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