Advanced Kaizen Leadership 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

The Advanced Kaizen Leadership in Manufacturing Training Course is designed to develop world-class continuous improvement leaders capable of driving Lean Manufacturing, Operational Excellence, and Total Quality Management (TQM) across modern production environments. This course equips professionals with cutting-edge capabilities in Kaizen implementation, waste elimination (Muda reduction), Gemba-based leadership, Six Sigma integration, and smart factory transformation aligned with Industry 4.0 standards. Participants will gain practical mastery in improving productivity, cycle time reduction, cost optimization, and defect-free manufacturing systems.

In today's highly competitive industrial landscape, organizations demand leaders who can implement data-driven Lean strategies, digital Kaizen systems, value stream mapping (VSM), Just-In-Time (JIT) production, and AI-enabled process optimization. This program bridges traditional Kaizen philosophy with modern smart manufacturing, IoT-enabled operations, predictive maintenance, and agile production systems. It empowers leaders to build a culture of continuous improvement, employee engagement, and operational agility, ensuring sustainable growth and global competitiveness in manufacturing excellence.

Programme Curriculum

Advanced Kaizen Leadership in Manufacturing Training Course

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Course Objectives

1. Master Lean Manufacturing & Kaizen Leadership Transformation
2. Implement Continuous Improvement (CI) Culture in Manufacturing Plants
3. Apply Value Stream Mapping (VSM) for Process Optimization
4. Reduce operational waste using Muda, Mura, Muri elimination techniques
5. Develop expertise in Gemba Walk Leadership & Shopfloor Management
6. Integrate Six Sigma DMAIC methodology for defect reduction
7. Drive Smart Factory & Industry 4.0 Lean Integration
8. Improve productivity through Just-In-Time (JIT) production systems
9. Enhance quality using Total Quality Management (TQM) frameworks
10. Optimize workflows with Kaizen Event (Blitz) execution strategies
11. Build leadership skills in Operational Excellence (OPEX) systems
12. Apply Root Cause Analysis (RCA) and 5-Why methodology
13. Enable AI-driven predictive manufacturing improvement systems

Target Audience

1. Manufacturing Plant Managers
2. Production Supervisors & Engineers
3. Continuous Improvement Managers
4. Quality Assurance Professionals
5. Industrial Engineers
6. Operations Directors
7. Supply Chain & Logistics Managers
8. Lean Six Sigma Practitioners

Course Modules

Module 1: Foundations of Kaizen Leadership

- Principles of Kaizen philosophy
- Continuous improvement mindset
- Leadership roles in Lean systems
- Waste identification basics
- Cultural transformation in factories
- **Case Study:** Toyota Production System success story

Module 2: Lean Manufacturing Fundamentals

- Lean principles overview
- Value creation vs waste
- Lean tools introduction
- Process flow optimization
- Lean maturity models
- **Case Study:** Automotive assembly line efficiency upgrade

Module 3: Value Stream Mapping (VSM)

- Current state mapping
- Future state design
- Bottleneck identification
- Cycle time reduction
- Lean flow redesign
- **Case Study:** FMCG production line optimization

Module 4: Gemba Walk Leadership

- Gemba principles
- Real-time observation methods
- Worker engagement strategies
- Problem identification at source
- Data-driven decision making
- **Case Study:** Textile factory productivity improvement

Module 5: Waste Elimination (Muda, Mura, Muri)

- 7 types of waste
- Overproduction reduction
- Inventory control techniques
- Motion and waiting waste
- Process balancing
- **Case Study:** Electronics manufacturing waste reduction

Module 6: Six Sigma DMAIC Integration

- Define, Measure, Analyze
- Improve and Control phases
- Statistical tools basics
- Defect reduction strategy
- Process capability improvement
- **Case Study:** Pharmaceutical defect reduction project

Module 7: Just-In-Time (JIT) Production

- Pull system implementation
- Inventory minimization
- Demand-based production
- Supplier synchronization
- Lead time reduction

- **Case Study:** Automotive JIT supply chain model

Module 8: Total Quality Management (TQM)

- Quality principles
- Customer satisfaction focus
- Quality circles
- Standardization systems
- Continuous quality audits
- **Case Study:** Food processing quality improvement

Module 9: Kaizen Events & Blitz Implementation

- Event planning structure
- Rapid improvement cycles
- Cross-functional teams
- Problem-solving workshops
- Implementation tracking
- **Case Study:** Warehouse layout optimization blitz

Module 10: Root Cause Analysis (RCA)

- 5 Whys technique
- Fishbone diagram usage
- Problem identification tools
- Data validation methods
- Corrective action planning
- **Case Study:** Machine breakdown elimination

Module 11: Operational Excellence (OPEX)

- OPEX frameworks
- KPI alignment
- Performance dashboards
- Productivity measurement
- Strategic execution models
- **Case Study:** Cement plant performance upgrade

Module 12: Smart Manufacturing & Industry 4.0

- IoT integration in production
- Automation systems
- Digital twin technology
- Real-time analytics
- Smart factory transformation
- **Case Study:** Smart automotive plant transformation

Module 13: Predictive Maintenance Systems

- Equipment monitoring tools
- Failure prediction models
- Sensor-based analytics

- Maintenance scheduling optimization
- Downtime reduction strategies
- **Case Study:** Power plant predictive maintenance system

Module 14: Lean Supply Chain Optimization

- Supply chain mapping
- Logistics efficiency improvement
- Vendor integration systems
- Demand forecasting
- Inventory optimization
- **Case Study:** Retail distribution network redesign

Module 15: Kaizen Culture & Leadership Excellence

- Employee engagement systems
- Continuous learning culture
- Leadership development models
- Recognition systems
- Sustainability in Kaizen
- **Case Study:** Global manufacturing culture transformation

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:

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