Integrated Management Systems in Manufacturing 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

The Integrated Management Systems (IMS) in Manufacturing Training Course is a comprehensive, industry-aligned program designed to equip professionals with advanced knowledge of ISO 9001 Quality Management Systems (QMS), ISO 14001 Environmental Management Systems (EMS), and ISO 45001 Occupational Health & Safety (OHS) integration. In today's highly competitive and compliance-driven manufacturing environment, organizations are increasingly adopting lean compliance frameworks, risk-based thinking, and digital quality transformation to improve efficiency, reduce operational risks, and achieve global certification standards. Integrated Management Systems in Manufacturing Training Course provides a structured approach to mastering IMS implementation, audit readiness, process optimization, and continuous improvement strategies.

With the rise of Industry 4.0, smart manufacturing, ESG compliance, and sustainability-driven operations, integrated systems are no longer optional but essential. This course empowers professionals to build a unified management system that eliminates redundancy, enhances operational control, ensures regulatory compliance, and drives operational excellence and sustainable manufacturing performance. Participants will gain hands-on exposure to real-world case studies, implementation tools, and global best practices used by leading manufacturing organizations.

Programme Curriculum

Integrated Management Systems in Manufacturing Training Course

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Course Duration

5 days

Course Objectives

1. Master ISO 9001, ISO 14001, and ISO 45001 integration frameworks
2. Implement risk-based thinking and preventive action systems
3. Develop process-based manufacturing quality systems
4. Enhance operational efficiency and lean manufacturing integration
5. Ensure regulatory compliance and global certification readiness
6. Build sustainable manufacturing and ESG compliance systems
7. Apply continuous improvement (Kaizen & Six Sigma principles)
8. Strengthen internal audit and compliance monitoring systems
9. Reduce operational risks and workplace incidents
10. Implement digital transformation in quality management systems
11. Improve supply chain quality integration and vendor compliance
12. Drive cost reduction through process optimization
13. Achieve world-class manufacturing (WCM) standards

Target Audience

1. Manufacturing Managers & Plant Heads
2. Quality Assurance / Quality Control Engineers
3. Environmental, Health & Safety (EHS) Officers
4. Production Supervisors & Operations Managers
5. Compliance & Risk Management Professionals
6. Industrial Engineers & Process Improvement Specialists
7. Internal Auditors & Certification Consultants
8. Supply Chain & Procurement Managers

Course Modules

Module 1: Fundamentals of Integrated Management Systems (IMS)

- Overview of ISO 9001, 14001, 45001 standards
- IMS structure and integration benefits
- Process approach in manufacturing

- Risk-based thinking principles
- Documentation hierarchy and system alignment
- **Case Study:** IMS implementation in an automotive parts manufacturing plant reducing duplication of processes by 35%

Module 2: Quality Management System (QMS) in Manufacturing

- Quality planning and control systems
- Defect prevention strategies
- Statistical Process Control (SPC)
- Customer satisfaction metrics
- Non-conformance management
- **Case Study:** Electronics manufacturing company improving defect rate by 40% using QMS integration

Module 3: Environmental Management System (EMS)

- Environmental aspects and impacts analysis
- Waste management and pollution control
- Energy efficiency strategies
- Regulatory environmental compliance
- Carbon footprint reduction systems
- **Case Study:** FMCG factory reducing waste disposal costs by 30% through EMS implementation

Module 4: Occupational Health & Safety (OHS) System

- Hazard identification and risk assessment (HIRA)
- Workplace safety culture development
- Incident reporting and investigation
- Emergency preparedness planning
- PPE and safety compliance systems
- **Case Study:** Chemical manufacturing plant reducing workplace accidents by 60%

Module 5: IMS Documentation & Process Integration

- Integrated documentation systems
- SOP development and control
- Record management systems
- Digital documentation tools
- Process mapping and workflow integration
- **Case Study:** Textile industry digitizing IMS documentation and improving audit readiness by 50%

Module 6: Internal Auditing & Compliance Systems

- Internal audit planning and execution
- Audit checklist development
- Non-conformity reporting
- Corrective and preventive actions (CAPA)
- Compliance tracking systems
- **Case Study:** Food processing company achieving zero major audit non-conformities

Module 7: Risk Management & Continuous Improvement

- Enterprise risk management frameworks
- Failure Mode and Effects Analysis (FMEA)
- Root cause analysis tools
- Kaizen and Lean integration
- Continuous improvement cycles
- **Case Study:** Heavy engineering firm reducing downtime by 25% through FMEA implementation

Module 8: Digital Transformation in IMS

- Industry 4.0 and smart manufacturing integration
- IoT in quality and safety monitoring
- AI-driven compliance systems
- Digital dashboards and KPI tracking
- Cloud-based IMS platforms
- **Case Study:** Smart factory achieving real-time compliance monitoring using IoT dashboards

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:

Register Online Now

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