ISO 45001 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 ISO 45001 Manufacturing Training Course is a comprehensive occupational health and safety management system (OHSMS) program designed to equip professionals with the skills to implement, monitor, and improve workplace safety in industrial and manufacturing environments. With increasing global focus on workplace safety compliance, risk management, and operational excellence, ISO 45001 has become the leading international standard for reducing workplace hazards and improving employee well-being in manufacturing sectors.

ISO 45001 Manufacturing Training Course provides in-depth knowledge of hazard identification, risk assessment, safety leadership, and continuous improvement frameworks aligned with ISO 45001:2018 standards. Participants will gain practical expertise in building a proactive safety culture, reducing workplace incidents, ensuring legal compliance, and driving sustainable manufacturing safety performance using globally recognized best practices.

Programme Curriculum

ISO 45001 Manufacturing Training Course

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Course Duration

10 days

Course Objectives

1. Understand ISO 45001:2018 framework and structure
2. Implement Occupational Health & Safety Management System (OHSMS)
3. Identify manufacturing workplace hazards effectively
4. Conduct advanced risk assessment and risk mitigation strategies
5. Develop safety leadership and workforce engagement skills
6. Ensure regulatory compliance with global safety laws
7. Establish proactive incident prevention systems
8. Improve workplace ergonomics and industrial hygiene
9. Apply emergency preparedness and response planning
10. Build safety performance monitoring systems (KPIs & KPAs)
11. Promote continuous improvement using PDCA cycle
12. Reduce workplace accidents and operational downtime
13. Strengthen organizational safety culture transformation

Target Audience

1. Safety Managers and HSE Officers
2. Manufacturing Plant Managers
3. Industrial Engineers and Supervisors
4. Quality Assurance Professionals
5. Compliance and Risk Management Teams
6. HR and Training Coordinators in manufacturing
7. Operations and Production Managers
8. ISO Auditors and Consultants

Course Modules

Module 1: Introduction to ISO 45001 Standards

- Overview of ISO 45001:2018 framework
- Evolution from OHSAS 18001
- Key principles of occupational safety
- Structure of ISO management systems
- Case Study: Safety transformation in automotive manufacturing plant

Module 2: Occupational Health & Safety Management System (OHSMS)

- OHSMS definition and scope
- Policy development in manufacturing
- Documentation requirements
- Integration with business processes
- Case Study: OHSMS implementation in textile industry

Module 3: Hazard Identification Techniques

- Types of workplace hazards
- Machinery and chemical hazard detection
- Workplace inspection methods
- Employee hazard reporting systems
- Case Study: Chemical hazard control in paint manufacturing

Module 4: Risk Assessment Methodologies

- Risk matrix development
- Qualitative vs quantitative risk analysis
- Job Safety Analysis (JSA)
- Risk prioritization techniques
- Case Study: Risk reduction in steel production unit

Module 5: Legal and Regulatory Compliance

- Global safety regulations overview
- Local manufacturing compliance laws
- Documentation for audits
- Penalties for non-compliance
- Case Study: Compliance failure in electronics factory

Module 6: Safety Leadership & Culture

- Leadership roles in safety management
- Behavioral safety practices
- Employee engagement strategies
- Safety communication systems
- Case Study: Culture change in FMCG manufacturing plant

Module 7: Operational Control Procedures

- Safe operating procedures (SOPs)
- Machinery safety controls
- Permit-to-work systems
- Contractor safety management
- Case Study: Accident reduction in heavy machinery plant

Module 8: Emergency Preparedness & Response

- Emergency planning framework
- Fire and evacuation systems
- Spill response procedures
- Crisis communication planning
- Case Study: Fire emergency handling in chemical plant

Module 9: Incident Investigation & Reporting

- Root cause analysis techniques
- Incident reporting systems

- Corrective and preventive actions
- Near-miss reporting importance
- Case Study: Injury investigation in packaging plant

Module 10: Workplace Ergonomics

- Ergonomic risk identification
- Manual handling safety
- Workstation design optimization
- Fatigue reduction strategies
- Case Study: Ergonomic redesign in assembly line

Module 11: Performance Monitoring & KPIs

- Safety performance indicators
- Data collection methods
- Dashboard reporting systems
- Audit tracking mechanisms
- Case Study: KPI improvement in automotive supplier

Module 12: Internal Auditing Techniques

- ISO 45001 audit framework
- Audit planning and execution
- Non-conformance reporting
- Auditor competency requirements
- Case Study: Internal audit success in manufacturing plant

Module 13: Continuous Improvement (PDCA Cycle)

- Plan-Do-Check-Act methodology
- Continuous safety improvement tools
- Lean safety integration
- Kaizen approach in safety
- Case Study: Productivity and safety improvement in factory

Module 14: Industrial Hygiene & Health Management

- Exposure to chemicals and noise
- PPE selection and management
- Health surveillance programs
- Air quality control measures
- Case Study: Noise reduction in metal fabrication unit

Module 15: ISO 45001 Certification Readiness

- Certification process steps
- Documentation readiness checklist
- External audit preparation
- Common non-conformities
- Case Study: Successful ISO 45001 certification journey

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

Start Date	End Date	Location	Price
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