



ME224: ISO 55001:2024 Asset Management Systems: Requirements & Implementation

Training Description:

This intensive training course provides participants with a comprehensive understanding of the **ISO 55001:2024 Asset Management Systems – Requirements** standard and practical guidance for implementing, maintaining, and continually improving an effective Asset Management System (AMS). The training course explains the updated requirements of ISO 55001:2024, highlights changes from previous editions and demonstrates how organizations can align asset management practices with strategic objectives, risk management, sustainability, governance and operational excellence.

Through practical workshops, case studies, implementation exercises and gap assessment activities, participants will gain the knowledge and skills necessary to establish, implement, monitor and improve an ISO 55001-compliant Asset Management System across physical assets and infrastructure.

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Understand the principles and benefits of ISO 55001:2024
- ✓ Explain the structure and requirements of ISO 55001:2024
- ✓ Identify the changes introduced in ISO 55001:2024
- ✓ Develop an Asset Management Policy aligned with organizational objectives
- ✓ Establish Strategic Asset Management Plans (SAMP)
- ✓ Implement lifecycle asset management processes
- ✓ Apply risk-based thinking in asset management
- ✓ Develop asset management objectives and performance measures
- ✓ Integrate asset management with enterprise risk management and business planning
- ✓ Prepare documentation required for ISO 55001 implementation
- ✓ Conduct gap assessments against ISO 55001 requirements
- ✓ Plan internal audits and management reviews
- ✓ Develop continual improvement plans
- ✓ Prepare the organization for ISO certification

Training Designed for:

This training course is intended for Asset Managers, Maintenance Managers, Reliability Engineers, Plant Managers, Operations Managers, Engineering Managers, Facility Managers, Infrastructure Managers, Project Managers, HSE Professionals, Quality Managers, Risk Managers, Utility Managers, ISO Coordinators, Internal Auditors, Senior Management and Consultants responsible for Asset Management implementation.

Training Requirement:

“Hand’s on practical sessions, equipment and software will be applied during the course if required and as per the client’s request.”

Contents can be adapted to your specific wishes. It is therefore possible to focus on specific modules of the training course as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Program:

DAY ONE:

INTRODUCTION TO ASSET MANAGEMENT & ISO 55001:2024

- ❖ **Module 1: Fundamentals of Asset Management**
 - Definition of assets
 - Types of organizational assets
 - Asset value realization
 - Asset lifecycle concepts
 - Principles of asset management
 - Asset management maturity models
 - Value creation through asset management
- ❖ **Module 2: ISO 55000 Family Overview**
 - ISO 55000
 - ISO 55001
 - ISO 55002
 - Relationship with ISO 31000
 - Relationship with ISO 9001
 - Relationship with ISO 14001
 - Relationship with ISO 45001
 - Relationship with ESG and sustainability initiatives
- ❖ **Module 3: New Features in ISO 55001:2024**
 - Key updates from previous editions
 - Enhanced leadership expectations
 - Organizational context improvements
 - Asset value emphasis
 - Risk and opportunity integration
 - Governance enhancements
 - Digital transformation considerations
 - Sustainability integration
- ❖ **Module 4: Understanding Organizational Context (Clause 4)**
 - Internal issues
 - External issues
 - Stakeholder expectations
 - Interested parties
 - Scope determination
 - Establishing the Asset Management System
- ❖ **Activities:**
 - Organizational Context Analysis
 - Stakeholder Mapping Exercise

DAY TWO:

LEADERSHIP, PLANNING & SUPPORT

- ❖ **Module 5: Leadership Requirements (Clause 5)**
 - Leadership commitment

- Roles and responsibilities
- Governance
- Asset Management Policy
- Organizational culture
- Accountability
- Communication responsibilities
- ❖ **Module 6: Planning Requirements (Clause 6)**
 - Risks and opportunities
 - Asset Management Objectives
 - Planning actions
 - Strategic Asset Management Plan (SAMP)
 - Performance indicators
 - Alignment with business strategy
- ❖ **Module 7: Asset Management Planning**
 - Asset portfolio management
 - Asset criticality analysis
 - Demand forecasting
 - Lifecycle planning
 - Capital planning
 - Investment optimization
 - Long-term asset planning
- ❖ **Module 8: Support Requirements (Clause 7)**
 - Resources
 - Competence
 - Awareness
 - Communication
 - Documented information
 - Knowledge management
- ❖ **Activities:**
 - Develop an Asset Management Policy
 - Prepare Strategic Asset Management Objectives

DAY THREE:

OPERATION & LIFECYCLE MANAGEMENT

- ❖ **Module 9: Operational Planning and Control (Clause 8)**
 - Operational processes
 - Lifecycle activities
 - Work management
 - Change management
 - Outsourcing
 - Contractor management
 - Operational controls
- ❖ **Module 10: Lifecycle Asset Management**
 - Acquisition
 - Design
 - Installation

- Commissioning
- Operation
- Maintenance
- Modification
- Renewal
- Disposal
- ❖ **Module 11: Risk-Based Asset Management**
 - Asset risk identification
 - Criticality assessment
 - Risk registers
 - Failure modes
 - Reliability-centered approaches
 - Risk treatment
 - Opportunity management
- ❖ **Module 12: Asset Information Management**
 - Asset registers
 - Data quality
 - Digital asset information
 - CMMS
 - EAM systems
 - GIS integration
 - Digital twins
 - Asset documentation
- ❖ **Activities:**
 - Asset Lifecycle Mapping
 - Risk Register Development

DAY FOUR:

PERFORMANCE EVALUATION & INTERNAL AUDITING

- ❖ **Module 13: Performance Evaluation (Clause 9)**
 - Monitoring
 - Measurement
 - Analysis
 - Performance indicators
 - Asset health indicators
 - Benchmarking
 - Reporting
- ❖ **Module 14: Asset Performance Management**
 - KPIs
 - Leading indicators
 - Lagging indicators
 - Reliability measures
 - Availability
 - OEE
 - Cost performance
 - Risk performance

- ❖ **Module 15: Internal Auditing**
 - ISO 19011 principles
 - Audit planning
 - Audit checklist development
 - Conducting audits
 - Interview techniques
 - Audit reporting
 - Corrective action follow-up
- ❖ **Module 16: Management Review**
 - Inputs
 - Outputs
 - Review process
 - Decision making
 - Performance improvement
 - Strategic review
- ❖ **Activities:**
 - Internal Audit Simulation
 - KPI Dashboard Exercise

DAY FIVE:

IMPROVEMENT & ISO 55001 IMPLEMENTATION

- ❖ **Module 17: Improvement (Clause 10)**
 - Nonconformities
 - Corrective actions
 - Root cause analysis
 - Continual improvement
 - Lessons learned
 - Preventive actions
- ❖ **Module 18: ISO 55001 Implementation Roadmap**
 - Gap assessment
 - Implementation planning
 - Resource allocation
 - Documentation development
 - Competency development
 - Change management
 - Certification preparation
- ❖ **Module 19: Certification Process**
 - Selecting certification bodies
 - Stage 1 audit
 - Stage 2 audit
 - Audit findings
 - Closing nonconformities
 - Maintaining certification
 - Surveillance audits
 - Recertification

❖ Module 20: Future Trends in Asset Management

- Digital Asset Management
- Artificial Intelligence
- Predictive Analytics
- Industry 4.0
- Smart Infrastructure
- IoT-enabled Asset Management
- ESG reporting
- Sustainability and circular economy
- Climate resilience in asset management

❖ Final Activities:

- ISO 55001 Gap Assessment
- Asset Management System Documentation Review
- Implementation Action Plan Development
- Case Study Presentation

Practical Exercises

❖ Participants will complete:

- Organizational context assessment
- Stakeholder analysis
- Asset Management Policy development
- Strategic Asset Management Plan (SAMP) preparation
- Asset criticality assessment
- Lifecycle cost analysis
- Risk assessment workshop
- Asset register evaluation
- KPI selection and dashboard design
- Internal audit simulation
- Management review simulation
- Gap assessment against ISO 55001:2024
- Corrective action planning
- ISO certification readiness assessment
- Development of a phased implementation roadmap

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Gamification, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

CMCT Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

USD\$ TBA - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:00	Recess (Prayer Break & Lunch)
13:00 - 14:00	Last Session

For training registrations or in-house enquiries, please contact:

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