

Training Course on Infrastructure Asset Management and ISO 55000 Series

Professional Development Training Course Outline

Category	Development	Duration	10 Days
Base Fee	\$3,000 USD	Delivery Mode	Online / On-site Hybrid

Course Introduction

Infrastructure Asset Management is a critical discipline that ensures long-term, cost-effective, and sustainable management of physical assets across their life cycles. This intensive training course empowers professionals with in-depth knowledge of **ISO 55000 standards**, lifecycle asset strategies, and risk-based decision-making frameworks. Designed for real-world application, it merges global best practices with data-driven management techniques to optimize infrastructure performance, reliability, and resilience.

As infrastructure systems age and funding becomes more limited, organizations must adopt **structured asset management systems** to make smarter investment decisions. This course bridges the gap between theory and practical implementation by offering a comprehensive understanding of ISO 55001 certification requirements, strategic asset planning, and technology-enabling tools such as GIS, BIM, and IoT for smarter infrastructure decisions. Participants will gain actionable insights to implement asset management systems that meet international standards and improve stakeholder confidence.

Programme Curriculum

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Course Objectives

1. Understand the fundamentals of **Infrastructure Asset Management Systems**.
2. Apply the ISO 55000, 55001, and 55002 standards for structured asset governance.
3. Develop strategic and tactical **asset management plans**.
4. Align asset management with organizational objectives and risk appetite.
5. Improve lifecycle costing, capital planning, and **condition assessment** techniques.
6. Integrate asset information systems and digital tools like **GIS and BIM**.
7. Conduct **risk-based decision-making** and asset criticality analysis.
8. Utilize performance monitoring and **KPIs for infrastructure optimization**.
9. Enhance **financial sustainability** through better asset investment strategies.
10. Promote **resilient infrastructure systems** in the face of climate change.
11. Implement continuous improvement and audit practices for ISO 55001 compliance.
12. Facilitate stakeholder engagement and transparent communication frameworks.
13. Achieve **ISO 55001 certification readiness** for your organization.

Organizational Benefits

- Reduce operational and capital costs through efficient asset strategies.
- Improve infrastructure reliability, safety, and lifecycle performance.
- Strengthen regulatory compliance and ISO 55001 audit readiness.
- Enable data-driven decision-making using digital asset tools.
- Enhance risk management and business continuity planning.

Target Audience

1. Asset Managers
2. Infrastructure Engineers
3. Municipal & Government Officials
4. Facility Managers
5. Risk & Compliance Officers
6. Maintenance and Reliability Engineers
7. Urban Planners and Civil Engineers
8. Professionals pursuing **ISO 55001 certification**

Course Outline

Module 1: Introduction to Asset Management Principles

- Define asset management
- Role in sustainable infrastructure

- Introduction to ISO 55000 series
- Lifecycle thinking
- Asset value optimization

Module 2: Overview of ISO 55000, 55001, 55002

- Structure of standards
- Core principles
- Terminology and clauses
- Requirements for compliance
- Integration with other standards

Module 3: Asset Management Policy & Strategy

- Drafting asset policies
- Alignment with corporate strategy
- Asset hierarchy mapping
- Vision and objective setting
- Policy deployment

Module 4: Asset Lifecycle Management

- Lifecycle phases overview
- Renewal and replacement planning
- Rehabilitation techniques
- Decommissioning planning
- Cost-benefit analysis

Module 5: Risk Management in Asset Planning

- Risk identification & analysis
- Asset criticality
- Risk registers
- ISO 31000 alignment
- Risk mitigation strategies

Module 6: Performance Monitoring & KPIs

- KPI development
- Leading vs lagging indicators
- Benchmarking methods
- Monitoring frameworks
- Dashboard reporting

Module 7: Asset Information & Data Management

- Data quality principles
- Asset data standards
- GIS integration
- CMMS and ERP systems
- Asset registers

Module 8: Capital Investment & Financial Planning

- Budget forecasting
- CapEx and OpEx planning
- Total cost of ownership
- Investment prioritization
- Financial modeling

Module 9: Asset Maintenance Strategies

- Preventive vs predictive
- Condition-based maintenance
- Failure analysis
- Maintenance scheduling
- Maintenance optimization tools

Module 10: Digital Technologies in Asset Management

- BIM applications
- IoT for asset tracking
- AI-driven analytics
- Mobile asset inspection
- Cloud-based asset systems

Module 11: Strategic Asset Management Plan (SAMP)

- Components of SAMP
- Development process
- Communication strategy
- Review cycles
- Sample templates

Module 12: ISO 55001 Certification Process

- Pre-audit preparation
- Documentation requirements
- Internal audits
- External certification process
- Continuous improvement practices

Module 13: Stakeholder Engagement & Governance

- Identifying stakeholders
- Engagement strategies
- Governance models
- Communication plans
- Role of leadership

Module 14: Climate Resilience & Sustainability in Assets

- Sustainability metrics
- Climate adaptation planning
- Carbon footprint of assets
- Green infrastructure
- Sustainable procurement

Module 15: Real-World Case Studies & Applications

- Municipal asset management
- Transportation infrastructure
- Utilities and water systems
- Case study analysis
- Lessons learned

Training Methodology

- **Interactive Lectures** with real-world examples
- **Group Exercises** and scenario-based simulations
- **Hands-On Case Studies** with industry templates
- **Quizzes & Knowledge Checks** for engagement
- **Final Assessment** for course certification

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
28 Sep 2026	09 Oct 2026	Online	\$2,000
28 Sep 2026	09 Oct 2026	Physical	\$3,000
28 Sep 2026	09 Oct 2026	Physical	\$0
28 Sep 2026	09 Oct 2026	Physical	\$0
28 Sep 2026	09 Oct 2026	Physical	\$0
28 Sep 2026	09 Oct 2026	Physical	\$0
28 Sep 2026	09 Oct 2026	Physical	\$0
28 Sep 2026	09 Oct 2026	Physical	\$0

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