INFRASTRUCTURE ASSET MANAGEMENT & ISO 55000 SERIES



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TRAINING CENTER

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Introduction

Infrastructure Asset Management & ISO 55000 Series Training Course prepares asset owners, engineers and finance professionals to run infrastructure portfolios under a recognised management system. Participants learn how the ISO 55000 series defines asset management, and how to build the policy, strategy, objectives and plans it requires. The programme covers asset registers, condition assessment, criticality analysis, life cycle costing and risk-based investment prioritisation across networks and facilities. Furthermore, it explains the evidence an ISO 55001 audit expects, including competence, documentation and performance measurement. As a result, delegates can implement the standard and improve asset performance with confidence. Gentex Training Center delivers the programme through framework workshops and case work.

Infrastructure Asset Management & ISO 55000 Series Course Objectives

- Explain the structure and purpose of the ISO 55000, 55001 and 55002 standards.
- Interpret ISO 55001 requirements clause by clause and map them to practice.
- Establish asset management policy, strategy, objectives and plans.
- Build asset registers, hierarchies and data quality controls.
- Apply criticality analysis and risk assessment across asset classes.
- Assess condition, defect severity and remaining useful life.
- Perform life cycle costing and whole-life cost analysis for renewal options.
- Prioritise capital and maintenance investment using risk-based scoring.
- Develop competence, awareness and documentation for ISO 55001 audit.
- Measure asset management performance and maturity for continuous improvement.

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Course Methodology

The course combines framework briefings with hands-on workshops on asset systems and audit preparation. Participants build a clause-by-clause gap analysis, draft policy and strategy documents and prepare a prioritised asset plan in Excel. In addition, structured peer review and group discussion reinforce each technique, and every day closes with an applied asset management task.

Who Should Take This Course

- Asset managers and asset engineers in infrastructure organisations.
- Maintenance, operations and reliability managers.
- Finance, capital planning and budgeting professionals.
- Quality, compliance and audit staff implementing ISO 55001.
- Project managers in renewal and upgrade programmes.
- Consultants and advisers supporting ISO 55001 certification.

Infrastructure Asset Management & ISO 55000 Series Course Outlines

Day 1: ISO 55000 Series Framework and Terminology

- Purpose and scope of ISO 55000, ISO 55001 and ISO 55002.
- Asset, asset management and asset management system defined.
- Relationship between ISO 55001 and other ISO management standards.
- Context of the organisation and stakeholder requirement analysis.
- Certification paths, certification bodies and audit cycles.

- Terminology alignment and common misconceptions.
- Workshop: building a glossary and context analysis for an infrastructure body.

Day 2: ISO 55001 Clauses and the Asset Management System

- Leadership, policy and organisational roles in ISO 55001.
- Planning: objectives, risk-based planning and asset management plans.
- Support: resources, competence, awareness and documentation.
- Operation: control of activities and change management.
- Performance evaluation, monitoring, measurement and internal audit.
- Improvement, nonconformity and corrective action requirements.
- Workshop: performing a clause-by-clause gap analysis.

Day 3: Asset Data, Condition and Risk Assessment

- Asset hierarchies, registers and data governance requirements.
- Condition assessment methods and grade classification.
- Criticality analysis and risk-based assessment of assets.
- Deterioration modelling and remaining useful life estimation.
- Risk registers, consequences and resilience considerations.
- Data quality, systems and GIS support for asset management.
- Workshop: building a risk-based criticality matrix for an asset portfolio.

Day 4: Life Cycle Costing and Investment Prioritisation

- Life cycle costing across acquisition, operation, maintenance and disposal.
- Whole-life cost comparison of renew, maintain and replace options.

- Depreciated replacement cost and componentised asset valuation.
- Discounting, inflation and sensitivity in long-term cost models.
- Risk-based prioritisation and capital programme development.
- Budget constraints, affordability and phased delivery planning.
- Workshop: preparing a prioritised capital programme in Excel.

Day 5: Competence, Performance Measurement and Audit Readiness

- Competence requirements and training plans for asset management roles.
- Performance measures, key indicators and asset management reporting.
- Internal audit programme design for ISO 55001.
- Evidence expectations, records and documentation control.
- Managing nonconformities and closing audit findings.
- Maturity assessment and continuous improvement roadmap.
- Workshop: presenting an ISO 55001 readiness assessment before a review panel.

Conclusion

By successfully completing Infrastructure Asset Management & ISO 55000 Series Training Course, participants will have acquired the knowledge to implement an asset management system that meets the ISO 55000 series and delivers measurable performance. They will understand ISO 55001 requirements, asset data and risk assessment, life cycle costing, investment prioritisation and audit readiness, and they will know how to evidence conformance. As a result, delegates strengthen both compliance and asset value. Gentex Training Center builds the programme around current asset management practice.

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FAQs for the Infrastructure Asset Management & ISO 55000 Series course

Q1 What is the "Infrastructure Asset Management & ISO 55000 Series" course about?

It explains how to manage infrastructure assets under a recognised management system. You cover the ISO 55000 series, ISO 55001 clauses, asset data and risk assessment, life cycle costing and investment prioritisation, with gap analysis and audit readiness exercises.

Q2 What are the key benefits of the "Infrastructure Asset Management & ISO 55000 Series" course?

You gain a practical route to ISO 55001 alignment rather than a theoretical overview. You also improve asset data and prioritisation quality, prepare evidence for certification audits with confidence, and build plans that boards and regulators accept.

Q3 What skills will I gain from the "Infrastructure Asset Management & ISO 55000 Series" course?

You will gain ISO 55001 framework implementation and gap analysis, asset data and criticality risk assessment, life cycle costing and investment prioritisation, and asset management performance measurement and audit readiness.

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Q4 What tools, methods, or standards are covered in the "Infrastructure Asset Management & ISO 55000 Series" course?

The course covers the ISO 55000, ISO 55001 and ISO 55002 standards, clause-by-clause conformance requirements, asset management policy and strategy documentation, criticality analysis, deterioration modelling, depreciated replacement cost valuation, whole-life cost analysis, risk-based prioritisation scoring, and internal audit and maturity assessment techniques.

Q5 How is the "Infrastructure Asset Management & ISO 55000 Series" course applied in real-world practice?

Graduates apply it to build asset registers and hierarchies, run gap analyses against ISO 55001, draft policy and strategy documents, model deterioration and remaining life, prioritise capital programmes, prepare certification audit evidence, and report asset performance to boards and regulators.