JUPITER PRIME

Consulting • Training • Advisory

جوبيتر برايم للاستشارات والتدريب

COURSE BROCHURE

Infrastructure Asset Management and ISO 55001 Training Course

jupiterprime.uk

info@jupiterprime.uk

Registered in the United Kingdom and Saudi Arabia

Infrastructure Asset Management and ISO 55001 Training Course

Infrastructure Asset Management and ISO 55001 is a 1-week training course for infrastructure asset managers, maintenance managers and asset owners, who leave with a Strategic Asset Management Plan for one portfolio of roads, utility networks or public buildings. Ageing networks, rising renewal backlogs and owners asked to justify every capital budget make evidence-based renewal decisions essential. Jupiter Prime Training offers this course on infrastructure asset management and ISO 55001.

Why Infrastructure Asset Management and ISO 55001 Matters Now

Three forces shape infrastructure asset management today: funding bodies and boards that expect renewal budgets backed by condition evidence, service users who notice every failed pipe, pavement or lift, and a workforce of experienced engineers retiring with knowledge that was never recorded. An owner who links levels of service, condition and whole-life cost spends renewal funds where risk is highest; one who renews by age or complaint spends heavily and still sees failures. The course rests on the ISO 55000 series, especially ISO 55000 for terms and principles, ISO 55001 for management system requirements and ISO 55002 for guidance.

Who Gains Most from Infrastructure Asset Management and ISO 55001

- Asset managers who own the asset register and renewal forecasts for a network
- Maintenance managers who plan inspections, repairs and planned interventions
- Capital planners who prioritise renewal and upgrade projects for funding
- Owner representatives who set levels of service and report asset performance to boards

An owner that sends its asset manager, maintenance lead and capital planner together gains most, because condition, risk and funding decisions then share one evidence base.

Infrastructure Asset Management and ISO 55001 Capabilities

Participants connect organisational objectives to network condition, risk and whole-life cost for a defined infrastructure portfolio.

- Align an asset management policy and objectives with organisational goals and ISO 55001 clauses — informing board approval
- Build an asset register and condition grading scheme for one network — supporting renewal forecasts
- Calculate whole-life cost for renewal and maintenance options — guiding capital planners
- Assess asset criticality and likelihood of failure in a risk matrix — prioritising interventions
- Specify the content of a strategic asset management plan — directing ten-year investment decisions

Key Infrastructure Asset Management and ISO 55001 Terms

- Strategic Asset Management Plan — a document turning organisational objectives into asset objectives and decision criteria.
- Asset Register — a structured record of each asset's identity, location, attributes, condition and value.
- Level of Service — a measurable statement of what a network delivers to users, such as availability.
- Whole-Life Cost — the total cost of acquiring, operating, maintaining, renewing and disposing of an asset over its life.
- Asset Criticality — a rating of the consequence of an asset's failure for safety, service, cost and reputation.
- Renewal Backlog — the value of assets past their intervention point that have not yet been renewed.

Infrastructure Asset Management and ISO 55001 Day by Day

Day 1: The ISO 55000 Series and the Infrastructure Owner

- ISO 55000 Principles — Defining Value, Alignment, Leadership and Assurance
- ISO 55001 Requirements — Structuring the Asset Management System
- Asset Management Policy and Objectives — Linking Owner Goals to Assets
- Road and Water Network Examples — Comparing Owner Challenges
- Maturity Self-Assessment — Locating Gaps Against ISO 55001 Clauses

Day 2: Asset Knowledge and Condition

- Asset Hierarchy and Register Design — Structuring Network Data
- Condition Grading Schemes — Rating Pavements, Pipes and Buildings
- Deterioration Curves — Forecasting Remaining Useful Life
- Data Quality Confidence Grading — Deciding Where to Collect More
- Asset Information Systems — Linking GIS and Maintenance Records

Day 3: Lifecycle Costing and Intervention Options

- Whole-Life Cost Models — Comparing Maintain, Renew and Replace
- Net Present Value of Options — Ranking Interventions Over Time
- Renewal Forecasting — Sizing Backlog and Future Funding Need
- Maintenance Strategy Mix — Balancing Reactive and Planned Work
- Disposal and Rationalisation — Retiring Surplus Network Assets

Day 4: Risk, Levels of Service and Performance

- Criticality and Consequence Scoring — Ranking Network Assets
- Risk-Based Prioritisation Matrix — Selecting Renewal Projects
- Levels of Service Framework — Translating User Needs Into Targets
- Asset Performance Indicators — Reporting Availability and Condition Trends
- Capital Investment Prioritisation — Defending Budgets to Funders

Day 5: Practising the Strategic Asset Management Plan

- Policy-to-Objective Line of Sight Exercise — Applying ISO 55001 Alignment
- Condition and Risk Case — Prioritising Renewals on a Water Network
- Funding Scenario Exercise — Testing Backlog Under Three Budgets
- Peer Review of Plan Drafts — Checking Evidence and Decision Criteria
- Strategic Asset Management Plan — Completing Objectives, Criteria and Ten-Year Outlook

Applying Infrastructure Asset Management and ISO 55001 After the Course

- Run a condition and criticality review of one asset class and rank its top renewal candidates with whole-life cost evidence.
- Present a draft asset management policy and three levels of service to leadership for comment.

Infrastructure Asset Management and ISO 55001 Questions FAQ

What is infrastructure asset management and ISO 55001, and why does it matter now?

It is the coordinated management of networks such as roads, pipes and buildings using the ISO 55001 management system. It matters now because ageing networks and renewal backlogs demand funding decisions backed by condition evidence.

Which roles gain most from infrastructure asset management and ISO 55001 training?

Infrastructure asset managers, maintenance managers and asset owners gain most. They hold the register, plan interventions and request capital, so condition grading, whole-life cost and risk-based prioritisation shape their decisions.

How does infrastructure asset management and ISO 55001 differ from a physical asset lifecycle course for plants?

It focuses on owners of public networks and their funding choices rather than plant equipment reliability. A plant lifecycle course covers machines and maintenance tactics, while this subject sets levels of service and renewal priorities.

What do you bring back from infrastructure asset management and ISO 55001 training?

You bring back a Strategic Asset Management Plan for a portfolio you manage. It links policy and objectives to condition, risk, levels of service and a ten-year renewal outlook.

Infrastructure Asset Management and ISO 55001: The Way Forward

The Strategic Asset Management Plan first informs which asset classes receive renewal funding in the next budget cycle. Asset managers, capital planners and owner representatives use it to defend budgets and set inspection priorities. After the first year of condition data, revisit the deterioration assumptions, since measured decline often differs from the curves used in the first plan.