Infrastructure Asset Management

25 – 29 October 2027
Rome (Italy)



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Introduction

Infrastructure assets—such as roads, bridges, utilities, transportation, and energy systems—form the backbone of modern economies. Managing these assets effectively is essential to ensure safety, optimize performance, enhance sustainability, and deliver long-term value.

This training course provides a structured and integrated approach to infrastructure asset management. It covers asset lifecycle management, risk assessment, data-driven decision-making, and sustainable investment planning. By combining technical insight with practical application, the course enables participants to align infrastructure performance with organizational objectives, policy priorities, and long-term community needs.

Course Objectives

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

- Understand the principles and frameworks of infrastructure asset management
- Develop and implement Strategic Asset Management Plans SAMP
- Apply asset lifecycle planning and performance optimization techniques
- Utilize risk management, cost analysis, and asset valuation methods
- Leverage data analytics and digital tools for decision-making
- Integrate sustainability and resilience into asset management strategies
- Analyze real-world case studies across infrastructure sectors

Course Outlines

Day 1: Foundations of Infrastructure Asset Management

- Define infrastructure assets and their strategic importance
- Understand the evolution from maintenance to lifecycle management
- Apply ISO 55000 standards and integrated asset management principles
- Use key performance indicators KPIs for value-driven decisions
- Practical application: building an asset management framework



Day 2: Asset Lifecycle Planning & Optimization

- Explore asset lifecycle phases: acquisition, operation, maintenance, renewal
- Conduct condition assessment and performance evaluation
- Prioritize investments for maintenance and replacement
- Balance short-term costs with long-term value
- Workshop: developing a lifecycle cost model

Day 3: Risk, Reliability & Data Management

- Identify and manage asset-related risks
- Apply reliability-centered maintenance RCM strategies
- Manage data collection, quality, and integration
- Use digital tools such as GIS, BIM, and IoT
- Simulation: risk-based maintenance planning

Day 4: Financial Management & Sustainability

- Apply asset valuation and depreciation methods
- Understand budgeting and infrastructure funding models
- Perform lifecycle cost analysis LCCA and total cost of ownership TCO
- Integrate sustainability and resilience into investment decisions
- Case study: sustainable infrastructure financing

Day 5: Strategic Planning, Governance & Future Trends

- Develop and implement Strategic Asset Management Plans SAMP
- Understand governance structures and accountability
- Engage stakeholders and enhance collaboration
- Explore smart infrastructure, digital twins, and innovation
- Group project: designing an asset management strategy

Why Attend This Course: Wins & Losses!

- Gain a comprehensive understanding of modern infrastructure asset management
- Strengthen analytical, financial, and strategic decision-making skills
- Apply international standards such as ISO 55000 effectively
- Build confidence in leading asset management initiatives
- Improve infrastructure performance and cost-efficiency
- Enable data-driven and risk-based decision-making
- Support long-term value creation and sustainability goals



Conclusion

In today's complex infrastructure landscape, traditional management approaches are no longer sufficient. Organizations need advanced strategies that combine analytical thinking, strategic planning, and data-driven decision-making.

This training course delivers a comprehensive learning experience that bridges theory and real-world application. It equips participants with the knowledge and practical skills required to manage infrastructure assets efficiently, enhance performance, and support strategic objectives.

By the end of the course, participants will be prepared to lead asset management initiatives and drive sustainable value across infrastructure systems, contributing to long-term organizational and economic growth.

