Strategic Asset Management & ISO 55001 for Infrastructure Training Course



21 - 25 Dec 2026

Barcelona

5900 € (Per Person)

Ref: #ISO9582_117567

Course Introduction / Overview:

This comprehensive training course provides a deep dive into the principles of Strategic Asset Management and the practical application of the ISO 55001 standard, specifically tailored for the complexities of infrastructure projects. In an era where infrastructure assets represent significant long-term investments, their effective management is critical for organizational success, public safety, and economic stability. This course, offered by BIG BEN Training Center, moves beyond mere compliance, focusing on how to leverage asset management to drive value, optimize performance, and enhance organizational resilience. Participants will explore the entire asset lifecycle, from planning and acquisition to operation, maintenance, and disposal. Drawing on the foundational concepts articulated by experts like John Woodhouse in works such as "Asset Management: The Whole-Life Management of Physical Assets," the program emphasizes a holistic, risk-based approach. It equips professionals with the skills to develop and implement a robust Asset Management System (AMS) that aligns with strategic objectives, satisfies stakeholder expectations, and fosters a culture of continuous improvement, ensuring infrastructure assets deliver their intended value throughout their operational life.

Target Audience / This training course is suitable for:

- Asset Managers and Engineers.
- Infrastructure Project Managers.
- Operations and Maintenance Managers.
- Facilities and Utilities Managers.
- Finance and Procurement Professionals involved in capital projects.
- Quality and Compliance Managers.
- Strategic Planners and Portfolio Managers.
- Government Officials and Public Works Directors.
- Consultants in asset and infrastructure management.

Target Sectors and Industries:

- Energy and Utilities (Power, Water, Gas).
- Transportation (Roads, Rail, Airports, Ports).
- Telecommunications.
- Public Works and Municipal Services.
- Government agencies and public sector bodies.
- Oil and Gas.
- Heavy Construction and Engineering.
- Mining and Natural Resources.
- Real Estate and Facility Management.

Target Organizations Departments:

- Asset Management Department.
- Project Management Office (PMO).
- Operations and Maintenance.
- Engineering and Technical Services.
- Finance and Accounting.
- Strategic Planning.
- Procurement and Supply Chain.
- Risk and Compliance.
- Capital Planning and Investment.

Course Offerings:

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

- Develop a comprehensive Strategic Asset Management Plan (SAMP) aligned with organizational goals.
- Interpret and apply the requirements of the ISO 55000, ISO 55001, and ISO 55002 standards.
- Establish a framework for risk-based decision-making in asset management.
- Optimize asset lifecycle costing and performance for infrastructure projects.
- Implement effective asset performance monitoring and reporting systems.
- Lead the development and implementation of an ISO 55001-compliant Asset Management System (AMS).
- Conduct internal audits and management reviews to ensure continuous improvement.
- Integrate asset management principles with sustainability and digital transformation initiatives.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be highly interactive, practical, and engaging, ensuring participants can translate theoretical knowledge into real-world application. The course combines expert-led presentations with collaborative group discussions, allowing for the exchange of ideas and experiences among peers from various industries. A significant portion of the training is dedicated to hands-on workshops and practical exercises where participants will work on developing key asset management documents, such as a draft SAMP or risk registers. Real-world case studies from major infrastructure projects will be analyzed to illustrate both successful implementations and common pitfalls of asset management. This problem-solving approach encourages critical thinking and equips attendees with the tools to tackle challenges within their own organizations. The facilitator will provide continuous feedback and guide participants through complex concepts, creating a supportive learning environment that fosters deep understanding and mastery of strategic asset management principles.

Course Agenda (Course Units):

Unit One: Foundations of Strategic Asset Management

- Introduction to Asset Management concepts and principles.
- The business case for asset management in infrastructure.
- Overview of the ISO 55000 family of standards (55000, 55001, 55002).
- Defining the organizational context and stakeholder needs.
- The role of leadership and commitment in asset management.
- Establishing the scope of the Asset Management System (AMS).
- Key terminology and definitions in asset management.

Unit Two: Developing the Asset Management Strategy

- Formulating the Asset Management Policy.
- Developing the Strategic Asset Management Plan (SAMP).
- Aligning asset management objectives with organizational objectives.
- Integrating the SAMP with other organizational plans (financial, strategic).
- Cascading objectives through the organization.
- Techniques for effective asset management decision-making.
- Documenting the SAMP and communicating it to stakeholders.

Unit Three: Planning and Implementing the Asset Management System

- Developing detailed Asset Management Plans (AMPs) for asset portfolios.
- Risk and opportunity management in the asset lifecycle.
- Contingency planning for infrastructure assets.
- Resource planning and competency management for asset management roles.
- Managing information requirements and asset data.
- Operational planning and control for maintenance and operations.
- Management of change processes.

Unit Four: Performance Evaluation and Continuous Improvement

- Monitoring, measurement, analysis, and evaluation of asset performance.
- Key Performance Indicators (KPIs) for infrastructure asset management.
- Techniques for asset condition assessment and monitoring.
- The internal audit process for an ISO 55001 AMS.
- Conducting effective management reviews.
- Managing nonconformities and implementing corrective actions.
- Driving a culture of continuous improvement in asset management.

Unit Five: Advanced Topics and Application in Infrastructure

- Integrating sustainability and resilience into asset management.
- The impact of digital transformation (IoT, AI, Digital Twins) on infrastructure assets.
- Lifecycle costing and whole-life value optimization.
- Managing outsourced activities and supplier performance.
- Stakeholder engagement and communication strategies.
- Building a business case for asset management investment.
- Preparing for ISO 55001 certification and beyond.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

How can an organization effectively balance short-term operational costs with long-term asset value and performance in large-scale infrastructure projects?

What unique qualities does this course offer compared to other courses?

This course distinguishes itself by its dedicated focus on the unique challenges and scale of infrastructure projects, moving beyond generic asset management theory. While other programs may cover the ISO 55001 standard in isolation, this training deeply integrates the standard's requirements with the practicalities of managing high-value, long-life assets like transportation networks, utilities, and public facilities. The curriculum is structured to build a strategic mindset, emphasizing the development of the Strategic Asset Management Plan (SAMP) as the central driver for value creation, not just a document for compliance. It places a strong emphasis on risk-based decision-making and lifecycle value optimization, providing participants with analytical frameworks to justify investment and operational strategies. By dissecting real-world infrastructure case studies, the course provides tangible insights into how to navigate complex stakeholder environments, manage extensive supply chains, and leverage digital transformation. The focus is less on software tools and more on the strategic thinking, leadership, and organizational alignment required to build a resilient and value-driven asset management capability.