QUEST
Professional Center

PROFESSIONAL TRAINING COURSE

Course No. 1297

Strategic Asset Management Training Course

RELIABILITY & ASSET MANAGEMENT
INDUSTRIAL ENGINEERING, MAINTENANCE & OPERATIONS

DURATION
5 Days

DELIVERY
Classroom

Course Overview

The Strategic Asset Management Training Course provides a comprehensive and practical framework for aligning asset management decisions with organizational strategy, business objectives, operational priorities, financial requirements, and risk management. The course focuses on developing a strategic approach to managing physical assets throughout their lifecycle while maximizing value, performance, reliability, and sustainability.

Strategic asset management goes beyond maintaining equipment and infrastructure. It requires organizations to understand how assets contribute to business objectives, how investment and maintenance decisions affect long-term performance, and how risks, costs, operational requirements, and asset condition should be balanced. Effective strategic asset management enables decision makers to establish clear priorities and allocate resources based on value, risk, and performance rather than isolated technical considerations.

The course examines asset management strategy, governance, asset portfolio planning, criticality assessment, lifecycle decision-making, risk management, performance management, investment planning, maintenance strategy, asset information, and continuous improvement. Participants will explore how to establish strategic asset management objectives, develop asset management plans, prioritize investments, evaluate asset performance, and create effective connections between executive strategy and operational execution.

The program is designed to support collaboration between executives, asset owners, engineering teams, maintenance departments, operations, finance, procurement, and risk functions. Participants will learn how to translate organizational objectives into practical asset management strategies, establish meaningful performance indicators, evaluate competing investment priorities, and develop improvement initiatives that strengthen asset value over the long term.

Objectives

- Analyze the principles of strategic asset management and their relationship with organizational strategy, operational performance, risk, and financial objectives.
- Develop strategic asset management objectives that are aligned with organizational priorities and measurable business outcomes.

- Evaluate asset portfolios based on criticality, condition, performance, risk, lifecycle cost, and strategic importance.
- Apply structured approaches to asset criticality assessment and prioritization of strategic assets.
- Assess the financial, operational, and risk implications of asset investment, maintenance, renewal, and replacement decisions.
- Develop asset management strategies that balance performance, cost, risk, reliability, and long-term value.
- Design performance frameworks and indicators for measuring strategic asset management effectiveness.
- Strengthen governance structures, decision rights, accountability, and cross-functional coordination for asset management.
- Evaluate asset lifecycle strategies and identify opportunities to optimize long-term asset value and performance.
- Apply risk-based approaches to prioritize asset management initiatives and investment requirements.
- Improve the integration of asset management information, operational data, financial information, and risk analysis into decision-making.
- Develop a practical strategic asset management framework and implementation roadmap for a selected organization or asset portfolio.

Who Should Attend

The Strategic Asset Management Training Course is designed for executives, directors, managers, and senior professionals responsible for the performance, investment, governance, and long-term management of organizational assets. It is particularly suitable for asset managers, asset integrity managers, engineering managers, maintenance and reliability managers, operations managers, infrastructure managers, facilities managers, project managers, and senior engineering professionals.

The course is also relevant to finance managers, investment and planning professionals, procurement managers, risk managers, performance management specialists, maintenance planners, reliability engineers, asset management engineers, and professionals involved in capital investment and lifecycle decision-making. It is valuable for professionals responsible for developing asset strategies, prioritizing investment programs, managing asset portfolios, and connecting technical requirements with organizational objectives.

Senior decision makers, asset owners, technical authorities, and multidisciplinary leadership teams will benefit from the strategic perspective provided by the program. The course helps participants establish a common approach to asset-related decisions and improve collaboration between engineering, operations, maintenance, finance, procurement, risk, and executive management.

Learning Outcomes

- Explain the role of strategic asset management in achieving organizational objectives and long-term business value.
- Develop asset management objectives aligned with organizational strategy and operational requirements.
- Evaluate asset portfolios using criticality, condition, performance, risk, and lifecycle cost information.
- Conduct structured asset criticality assessments and establish investment and management priorities.
- Develop strategic asset management plans for critical assets and asset portfolios.
- Evaluate investment, maintenance, renewal, refurbishment, and replacement alternatives using risk and value considerations.
- Apply lifecycle thinking to improve asset performance and long-term decision-making.
- Develop strategic asset management performance indicators and management dashboards.
- Establish appropriate governance structures, responsibilities, decision rights, and accountability for asset management.
- Integrate financial, technical, operational, risk, and asset information into strategic decision-making.
- Identify gaps in existing asset management practices and develop targeted improvement initiatives.
- Prepare an implementation roadmap for strengthening strategic asset management across an organization.

Course Outline

DAY 01

Strategic Asset Management Principles and Organizational Alignment

- Introduction to Strategic Asset Management and its role in organizational performance.
- From traditional asset maintenance to strategic asset management.
- Asset value, performance, risk, cost, and organizational objectives.
- The relationship between corporate strategy and asset management strategy.
- Asset management principles and value-based decision-making.
- Asset lifecycle perspective and long-term asset value.
- Understanding organizational stakeholders and asset-related expectations.
- Strategic asset management governance and accountability.
- Defining asset management objectives and strategic outcomes.
- Linking asset management decisions to operational and financial performance.
- Identifying strategic asset management maturity and organizational capability.

> PRACTICAL APPLICATION
> Assess the strategic asset management approach of a representative organization and identify key alignment gaps between corporate objectives and asset-related decisions.

DAY 02

Asset Portfolio Strategy, Criticality, and Risk Management

- Strategic asset portfolio management principles.
- Asset classification and portfolio segmentation.
- Asset criticality assessment methodologies.
- Evaluating operational, financial, safety, environmental, and reputational consequences.
- Probability and consequence considerations in asset risk assessment.
- Developing asset risk profiles and risk-based priorities.
- Identifying critical assets and strategic asset groups.
- Managing aging, obsolete, and high-risk assets.

DAY 02 — CONTINUED

- Risk-based prioritization of maintenance and investment activities.
- Balancing asset performance requirements with available resources.
- Integrating asset risk management with enterprise risk management.

PRACTICAL APPLICATION

Develop an asset criticality and risk assessment for a selected asset portfolio and establish strategic priorities for management intervention.

DAY 03

Lifecycle Strategy, Investment, and Asset Performance

- Developing asset lifecycle strategies.
- Strategic considerations during asset planning and design.
- Lifecycle cost and total cost of ownership.
- Investment decision-making for new and existing assets.
- Evaluating repair, refurbishment, renewal, and replacement alternatives.
- Asset performance management and performance optimization.
- Maintenance strategy and its relationship with strategic asset value.
- Reliability, availability, maintainability, and operational performance.
- Condition monitoring and asset health assessment.
- Managing asset obsolescence and technological changes.
- Developing long-term asset renewal and investment programs.

PRACTICAL APPLICATION

Evaluate alternative lifecycle strategies for a selected asset and determine the preferred option based on performance, risk, lifecycle cost, and strategic value.

DAY 04

Governance, Performance Management, and Asset Information

- Strategic asset management governance frameworks.
- Roles and responsibilities of asset owners, managers, engineers, operators, and support functions.
- Decision rights, accountability, and escalation processes.
- Developing strategic asset management policies and standards.
- Asset management performance frameworks.
- Key performance indicators for asset value, cost, risk, reliability, and performance.
- Leading and lagging asset management indicators.
- Asset information management and data quality.
- Integrating technical, financial, operational, and risk information.
- Using asset data and analytics to support strategic decisions.
- Management reporting and executive asset performance reviews.

> **PRACTICAL APPLICATION**
> Design a strategic asset management performance framework containing governance responsibilities, key performance indicators, asset information requirements, and management reporting processes.

DAY 05

Strategic Asset Management Planning and Implementation

- Developing a strategic asset management framework.
- Translating organizational objectives into asset management initiatives.
- Establishing strategic priorities and asset management programs.
- Developing asset management plans and implementation roadmaps.
- Prioritizing improvement initiatives based on value, risk, cost, and organizational capability.
- Resource planning and investment requirements.
- Managing organizational change and cross-functional alignment.
- Building collaboration between engineering, maintenance, operations, finance, procurement, and risk functions.

DAY 05 — CONTINUED

- Establishing continuous improvement mechanisms for strategic asset management.
- Monitoring implementation progress and measuring strategic outcomes.
- Reviewing asset management strategy and adapting it to changing business conditions.

FINAL WORKSHOP

Develop a comprehensive Strategic Asset Management Plan for a selected organization or asset portfolio, including strategic objectives, asset criticality, risk priorities, lifecycle strategies, investment requirements, governance structure, performance indicators, information requirements, improvement initiatives, implementation priorities, and a practical roadmap for execution.

Register or Request More Information

Course page: https://quest-training.com/courses/strategic-asset-management-training-course
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