



Maintenance & Reliability Management

# Advanced Techniques in Asset Management

## Course Introduction

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Advanced asset management techniques are crucial for organizations aiming to optimize the value, performance, and lifespan of their assets. Effective asset management involves strategic planning, data-driven decision-making, and the ability to predict and prevent failures, leading to lower costs, improved efficiency, and greater operational reliability. With the increasing reliance on technology, organizations must adopt advanced asset management methods to stay competitive and manage assets effectively.

This training program provides participants with the tools and techniques needed to apply advanced asset management practices. It covers key topics such as lifecycle management, data analysis, predictive maintenance, and continuous improvement.

## Target Audience

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This course is designed for asset managers, maintenance engineers, and professionals responsible for the effective management and optimization of assets within their organization.

## Learning Objectives

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- Understand the fundamental concepts and importance of advanced asset management.
- Learn how to manage the full lifecycle of assets from acquisition to disposal.
- Gain skills in collecting, analyzing, and using data for informed asset management decisions.
- Understand how predictive and preventive maintenance strategies optimize asset performance.

- Learn how to implement continuous improvement techniques to enhance asset management outcomes.

## Course Outline

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### • 01 DAY ONE

#### Introduction to Advanced Asset Management

- What is asset management and why is it important?
- The strategic role of asset management in organizational success
- Overview of asset management frameworks (ISO 55000, PAS 55, etc.)
- Key differences between traditional and advanced asset management approaches
- The relationship between asset management and operational efficiency
- Understanding asset lifecycle and total cost of ownership

Challenges in managing assets effectively in modern organizations

### • 02 DAY TWO

#### Asset Lifecycle Management

- Overview of the asset lifecycle: from acquisition to disposal
- Importance of planning and forecasting during the lifecycle
- How to optimize each phase of the asset lifecycle
- Key techniques for evaluating asset performance throughout its life
- Developing and managing asset replacement strategies
- Tools for managing and tracking asset data
- Best practices for managing risk and compliance in asset lifecycle

### • 03 DAY THREE

#### Data-Driven Asset Management

- The role of data in modern asset management
- Types of data used in asset management: operational, maintenance, financial
- How to collect, store, and analyze asset data effectively
- Implementing data-driven decision-making in asset management
- Using asset performance indicators (APIs) and key metrics
- The benefits of integrating IoT and sensors for real-time data collection

• 04 DAY FOUR

Predictive and Preventive Maintenance Strategies

- Overview of preventive maintenance (PM) vs. predictive maintenance (PdM)
- How to integrate PdM strategies into asset management
- Technologies used in predictive maintenance (AI, machine learning, IoT)
- Developing and implementing a predictive maintenance plan
- The role of condition monitoring in PdM
- Benefits of predictive maintenance in reducing downtime and costs

• 05 DAY FIVE

Continuous Improvement and Optimization in Asset Management

- Importance of continuous improvement in asset management
- Methods for identifying inefficiencies and areas for improvement
- How to implement a continuous improvement culture in asset management
- Tools and techniques for optimizing asset performance and lifespan
- The role of benchmarking in asset management optimization
- Setting up a feedback loop to refine asset management strategies

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 30, 2025	July 4, 2025	5 days	4250.00 \$	UAE - Abu Dhabi
Aug. 4, 2025	Aug. 8, 2025	5 days	4950.00 \$	Thailand - Bangkok
Dec. 1, 2025	Dec. 5, 2025	5 days	4250.00 \$	UAE - Dubai