AM4.0

Executing your strategy in practice

AM 4.0
Enterprise
L&D Program
Course Catalogue





Introduction to the Program

15+ YearsProviding L&D

Global Accreditation Impactful Immediate ROI



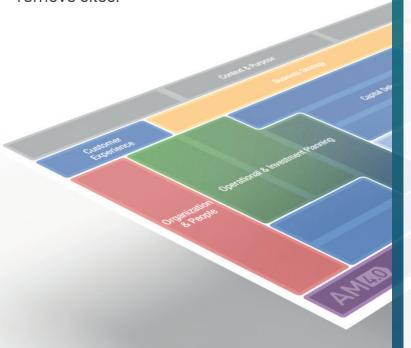
We have provided training to 1000+ organizations throughout the world and AM 4.0 Enterprise L&D is designed for the next 20,000+

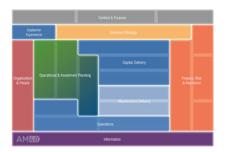
We offer a mix of instructor-led & self-paced, online learning



The AM 4.0 Framework

AMCL's AM 4.0 Enterprise L&D
Program is centered on the AM 4.0
Framework. The high performance,
customized framework provides
asset intensive organizations with
a means of aligning investment
decisions with customer
expectations and provide an
end-to-end process that helps
remove silos.





AM 4.0 Framework Subjects:

Context & Purpose
Customer Experience
Business Strategy
Organization & People
Operational Investment Planning
Capital Delivery
Maintenance Delivery
Operations
Digital Information Management
Finance, Risk & Assurance

AM 4.0 Course Levels

AMCL has converted its extensive, best-in-class learning catalog to a digital platform that is more accessible, digestible, and cost-efficient. Each Learner Journey contains the most appropriate courses for the individual's role and level.

Fdn

Foundation Series

3 Modules

11 Sessions

The Foundation Series provides a basic understanding of key management system framework principles for all Learners within an organization.

Prc

Practitioner Series

4 Modules

26 Sessions

The Practitioner Series focuses on those within the organization who require more specific skills as part of their level of responsibility and department.

Adv

Advanced Series

6 Modules

51 Sessions

The Advanced Series is focused on ensuring Upskilling and Reskilling at a more technical level for leaders and those involved in developing business plans.

Ldr

Leadership Series

8 Modules

24 Sessions

The Leadership Series is aimed at providing a working understanding of the management system framework's key principles which can be used to better prioritize investment decision making and set the strategic direction for the culture and operating model of the organization.

Blended Learning

A combination of self-paced eLearning sessions with live, hosted, Instructor Led Training sessions to provide your optimized learning experience.



Self-paced Learning



Instructor Led Training



Blended Learning

The AM 4.0 Course Structure





Fdn1.1 What is Asset Management and why is it Important?

Fdn1.2 Scope of Good Practice Asset Management



Good Practice Asset Management

Fdn2.1 Stakeholders

Fdn2.2 Alignment

Fdn2.3 Risk Fdn2.4 Life Cvcle

Fdn2.5 Monitoring and Assurance

Fdn2.6 Team Working and Collaboration



The Asset Management Journey

Fdn3.1 The Organisational Asset Management Journey

Fdn3.2 The Individual Asset Management Journey

Fdn3.3 IAM Resources





Prc1.1 Asset Management

Prc1.2 Alignment

Prc1.3 Stakeholders, Risk Appetite & Demand

Prc1.4 Developing an Asset Management Policy

Prc1.5 Developing an Asset

Prc1+ Additional Self Study



Risk Management, Outsourcing & Review

Prc2.1 Risk Assessment

Principles

Prc2.2 Risk Assessment Process Prc2.3 Integrating Risk & Asset

Management

Prc2.4 Contingency Planning

Prc2.5 Outsourcing: Risk & Opportunities

Prc2.6 Review

Prc2+ Additional Self Study



Whole Life Costing Management Plan

Prc3.1 Whole-Life View of

Investments

Prc3 2 Whole-Life costs Prc3.3 Using Whole-Life Costs

Prc3.4 Asset Management Planning

Prc3.5 Principles of Asset Information Management

Prc3+ Additional Self Study



Optimizing Lifecycle Activities

Prc4.1 Investment Decsion-Making

Prc4.2 Asset Creation

Prc4.3 Key Maintenance Concepts

Prc4.4 Maintenance Optimisation

Prc4.5 Inventory Management

Prc4.6 Principles of Disposal

Prc4+ Additional Self Study



The Practice of

Asset Management

Adv1.1 Key Asset Management

Adv1.2 Alignment

Adv1.3 Risk Appetite

Adv1.4 AM Policy Adv1.5 AM Objectives

Adv1.6 SAMP or top level AM Strategy

Adv1.7 Asset Management System

Adv1.8 The Role of Top

Governance Adv1.9 Where are you now?

Adv1.10 Where do you want to go?



Adv2.1 Principles of Asset Information Management

Adv2.2 The Asset Inventory

Adv2.3 Work Management

Systems Adv2.4 Information Quality

Adv2.5 Managing Asset

Informati Adv2.6 Asset Information

Processes

Adv2.7 Asset Information Systems

Adv2.8 Knowledge Management

Adv2.9 Current Topics in Asset Information



People & Asset Management

Adv3.1 Asset Management, Organization and Culture

Adv3.2 AM Leadership

Adv3.3 Organizational Structure

Adv3.5 AM Competence

Adv3.6 Communication

Adv3.7 Managing Change



Lifecycle Decisions

Adv4.1 Defining & Delivering Lifecycle Activities

Adv4.2 Acquisition: Business Needs including Demand

Adv4.3 Acquisition: Capital Investment Decisions

Adv4.4 Acquisition: Construction

Adv4.5 Review of Reliability Engineering

Adv4.6 Operations & Asset Management

Adv4.7 Asset Failures

Adv4.8 Maintenance Strategies

Adv4.9 Asset Condition

Adv4.10 'Refurbishment'

Adv4.11 Strategic Failure Modes Adv4.12 Review of Sustainability



Understanding Whole Life Costs

& Risks Adv5.1 Overview of Lifecycle

Adv5.2 Building a Whole Life

Cost model Adv5.3 Model-Building Best

Practice Adv5.4 Modelling Other Costs Adv5.5 Comparing Options using



Adv6 Contractor & Supplier Management

Adv6.1 Risks and benefits of outsourcing

Adv6.2 Main types of 3rd party work

Adv6.3 Principles of

procurement Adv6.4 The right contract for

the job Adv6.5 Managing contracts and suppliers

Adv6.6 The role of Asset Managers

Adv6.7 Financial Terms



Ldr1 Introduction to the AM 4.0 Framework Ldr1.1 Challenges Facing

Leadershi

Ldr1.2 Executing Strategy Ldr1.3 Value, Risk & Governance

The Role of Leadership in Culture, Alignment & Capability Building

Ldr2.1 Leadership

Ldr2.2 People

Ldr2.3 Organizational Design & AM Framework

Delivering on Strategic Objectives

Ldr3.1 Understanding Stakeholders

I dr3 2 Value-hased

Decision-making Ldr3.3 Net Zero



Meeting Financial & Budget Constraints

Ldr4.1 Strategic Planning

Ldr4.2 Spending Trade-offs Ldr4.3 Tools & Data

Ldr5

Ldr5.2 Governance

I dr5.3 Resilience

Role of Digital in AM 4.0 Ldr6

Ldr6.1 Introduction to Digital

Governance & Risk

Ldr6.2 Maximizing Value

Ldr6.3 Digital Twins



Ldr7.1 Performance

Management Framework

Ldr7.2 Measuring Performance Ldr7.3 Continuous Improvement



Ldr8.1 Program Management

Office

Ldr8.2 Systems Integration Ldr8.3 Successful Handover to Operations

The AM 4.0 Course structure contains our industry leading training products, plus specific leadership modules to support your capability in the application of the AM 4.0 Framework within your organization.

Fdn Foundation Series

The Foundation Series provides a basic understanding of key management system framework principles for all Learners within an organization.

The Foundation Series provides an introduction to the principles of Asset Management which forms the basis for the AM 4.0 Enterprise L&D Program.

The Foundation Series suits all levels within your organization, including executives with significant experience and juniors that are starting their journey in industry.

The learning is delivered in a modular eLearning format, this provides ultimate flexibility to learners.



Fdn Foundation Series

Sessions Summary

Fdn1 Asset Management Principles

Fdn1.1 What is Asset Management and why is it Important? Fdn1.2 Scope of Good Practice Asset Management

Fdn2 Good Practice Asset Management

Fdn2.1 Stakeholders

Fdn2.2 Alignment

Fdn2.3 Risk

Fdn2.4 Life Cycle

Fdn2.5 Monitoring and Assurance

Fdn2.6 Team Working and Collaboration

Fdn3 The Asset Management Journey

Fdn3.1 The Organisational Asset Management Journey

Fdn3.2 The Individual Asset Management Journey

Fdn3.3 IAM Resources





Asset Management Principles:

Introducing Asset Management, its importance to organizations and the full scope of what is covered

Key Topic areas	What is covered
What is Asset Management and why is it Important?	Asset Management definitions Benefits of Good Practice Asset Management Why Asset Management is Important
Scope of Good Practice Asset Management	 Looking at Asset Management from a conceptual view A system view of Asset Management Introducing the ISO 55001 Asset Management System

Duration

40 Minutes

Target Audience

All employees within the organization

Delivery Method

Self paced eLearning (no webinars)

- Typically derived benefits for an organization
- Visualization of organizational capability
- Comparison of capability and organizational output
- Examples based on international industry standards
- Knowledge checks throughout the learning





Good Practice Asset Management:

Good Practice Asset Management: Explore techniques to translate organizational needs to successful outcomes

Key Topic areas	What is covered
Stakeholders	 How Top Management direct the organization Understand the stakeholders for your organization and why they matter Balancing decisions across the stakeholder requirements
Alignment	 Principle of alignment Aligned decision making Importance of alignment between objectives and activities
Risk	 Defining risk appetite and risk tolerance Risk definition from ISO 31000 Risk Management Principles, Framework and Process Using risk in decision making
Life Cycle	 Using criticality to drive complexity of solution Whole-Life approach to decision making Relationship between investment decisions and whole life cost and risk Whole life cost modelling
Monitoring & Assurance	 Evaluation the performance of your processes and assets The need for continual improvement Understanding the management of change
Team Working & Collaboration	The need for collaboration for success The seven revelations of Asset Management

Duration

2 Hours

Target Audience

All employees within the organization

Delivery Method

Self paced eLearning (no webinars)

- Examples of the principles of Asset Management and how these are applied in organizations
- Key considerations of a framework approach to deliver organization objectives
- An overview of decision making through the asset life cycle





Key Topic areas	What is covered
The Organizational Asset Management Journey	 How to assess organization Asset Management maturity Defining maturity target to suit stakeholder benefits and needs The Big Picture of Asset Management Using a competence framework
The Individual Journey	Formal qualifications in Asset Management The journey to Professional Registration
Resources	Industry publications to provide further information International Standard that can be used for certification to requirements

Duration

30 Minutes

Target Audience

All employees within the organization

Delivery Method

Self paced eLearning (no webinars)

- Proven methodology to enable you to implement benefits in your organization
- An approach to achieving personal recognition of your knowledge and experience
- Industry publications to reinforce your learning

Pro Practitioner Series

The Practitioner Series focuses on those within the organization who require more specific skills as part of their level of responsibility and department.

The Practitioner Series aids in the development of knowledge and comprehension of Asset Management principles, practices and the business benefits these can deliver.

The contents of the Practitioner Series are based on the IAM Qualifications Syllabus and fully aligned with the 2014 IAM Competences Framework, the requirements of ISO 55001 and the GFMAM Asset Management Landscape.



Pro Practitioner Series Sessions Summary



Alignment & Asset Management Policies & Strategies



Prc1.2 Alignment

Prc1.3 Stakeholders, Risk Appetite & Demand

Prc1.4 Developing an Asset Management Policy

Prc1.5 Developing an Asset Management Strategy

Prc1+ Additional Self Study



Whole Life Costing & the Asset Management Plan

Prc3.1 Whole-Life View of Investments

Prc3.2 Whole-Life costs

Prc3.3 Using Whole-Life Costs

Prc3.4 Asset Management Planning

Prc3.5 Principles of Asset Information Management

Prc3+ Additional Self Study



Risk Management, Outsourcing

& Review

Prc2.1 Risk Assessment Principles

Prc2.2 Risk Assessment Process

Prc2.3 Integrating Risk & Asset Management

Prc2.4 Contingency Planning

Prc2.5 Outsourcing: Risk & Opportunities

Prc2.6 Review

Prc2+ Additional Self Study



Alignment & Asset Management

Policies & Strategies

Prc4.1 Investment Decsion-Making

Prc4.2 Asset Creation

Prc4.3 Key Maintenance Concepts

Prc4.4 Maintenance Optimization

Prc4.5 Inventory Management

Prc4.6 Principles of Disposal & Rationalisation

Prc4+ Additional Self Study







Alignment & Asset Management Policies & Strategies:

The principles of Asset Management and how these drive decision making in an organization

Key Topic areas	What is covered
Asset Management Principles	 Explain what Asset Management is Recognize the ISO 55000 series of standards Outline the benefits of Asset Management Understand the Asset Management Conceptual Model Describe the subject areas of good practice Asset Management Understand the concept of an Asset Management System
Alignment	 Understand the role of Top Management Apply the concept of Alignment and how it integrates with organizational objectives Identify the top down hierarchy within the Asset Management System The role of organizational objectives
Stakeholders, Risk Appetite & Demand	The role of stakeholders Understand stakeholder requirements and how to manage conflicts in these Consider Cost, Risk and Performance in decision making Understand Risk Appetite, Demand and Scenario planning approaches Strategic risks and constraints
Developing an Asset Management Policy	Understand drivers for Asset Management Policy How stakeholders influence Asset Management Policy
Developing an Asset Management Strategy	 How to develop an Asset Management Strategy Effective Asset Management Objectives Developing the long-term plan How to measure the effectiveness of the strategy

Duration

5 to 6 hours

Target Audience

Defined practitioner roles within your organization

Delivery Method

eLearning with recorded webinars

Includes

• Self study modules to provide further learning in subject areas covered





Risk Management, Outsourcing & Review:

Applying good practice risk principles to decision making

Key Topic areas	What is covered
Risk Management Principles	 Why risk is important and how it is defined within ISO 31000 Principles of risk management Framework for risk management Process for risk management Opportunities in risk management
Risk Assessment	 Cause-effect chains and bow-tie risk assessment The risk assessment process Using a matrix for risk assessment Annualized cost of risk to support planning decisions Achieving consistency in approaches to risk
Risk Treatment	 Understand generic options for treating risk Categorization of risks and identification of correct treatment strategy Methods for comparison of competing options
Contingency Planning	 Contingency definition and understanding how these relate to planning How to identify, develop, implement and continually improve a contingency plan
Outsourcing • Risks & Opportunities	 Identify when to outsource and the risks related to this How to develop a client/supplier relationship Role of procurement and tendering Asset Management procurement requirements
Asset Management Review	 Importance of review and continual improvement Applying measures to our activities Importance of change management

Duration

5 to 6 hours

Target Audience

Defined practitioner roles within your organization

Delivery Method

eLearning with recorded webinars

Includes

• Self study modules to provide further learning in subject areas covered





Whole Life Costing & the Asset Management Plan:

Making effective decisions across the asset life-cycle to achieve the optimum outcomes

Key Topic areas	What is covered
Whole-Life View of Investments	Definition of whole-life view and the importance to decision making How whole-life costs and risk vary across the lifecycle Influence of design and construction on whole-life cost
Whole-Life Costs	 Different costs across the asset life-cycle Importance of unit costing to consistent decision making Appreciate that whole-life costs can be modelled, understood and utilized to make decisions
Optimizing a Renewal Frequency	 Understanding the concept of 'lowest average annual cost' Optimum economic life definition Building a single asset 'whole-life cost template' Calculating the optimum life
Asset Management Planning	Scope and content of an Asset Management Plan Explore different plan timescales Processes for the development and integration of plans Prioritize and Optimize plans Sustainable plans Constraining the plan Communication and review of the plan
How Asset Information Contributes	What is information and how it supports Asset Management How decision making drives information requirements Key elements of asset information management Data quality criteria

Duration

5 to 6 hours

Target Audience

Defined practitioner roles within your organization

Delivery Method

eLearning with recorded webinars

Includes

• Self study modules to provide further learning in subject areas covered

Course Catalogue





Optimizing Lifecycle Activites:

Consideration of all aspects of the asset lifecycle, from specification, acquisition and installation to decommissioning and disposal

Key Topic areas	What is covered
Investment Decision-Making	 Aligned decision making criteria Importance of understanding investment requirements The business case Financial appraisal of an investment Impact of time on the value of money
Asset Creation	 Program and project management The importance of project management monitoring and control Roles and responsibilities through the life of the project Using Systems Engineering to manage requirements
Key Maintenance Concepts	 What is maintenance and why is it important? Different types of maintenance Relationship between maintenance definition and delivery Information requirements for maintenance
Maintenance Optimization	 Principles of maintenance optimization Concept of Function and Functional Failure Identify and classify Failure Modes Identify suitable maintenance and inspection tasks Implementing maintenance changes
Inventory Management	 Description of inventory and categories of spares Managing fast moving consumable spares Managing repairable spares Managing strategic spares
Principles of Rationalization and Disposal	 Differences between rationalization and disposal Describing strategic failure modes Key aspects of asset rationalization Key aspects of asset disposal

Duration

5 to 6 hours

Target Audience

Defined practitioner roles within your organization

Delivery Method

eLearning with recorded webinars

Includes

 Self study modules to provide further learning in subject areas covered



Adv Advanced Series

The Advanced Series is focused on ensuring Upskilling and Reskilling at a more technical level for leaders and those involved in developing business plans.

The Advanced Series is for people experienced in asset management. This Series combines action learning, group work and supported learning to provide a challenging, engrossing experience.

This Series gives delegates the personal skills needed to succeed in asset management roles as well as the underpinning knowledge, recognition of best practices, analytical and synthesizing techniques. The contents are based on specifications published by the IAM and, therefore, fully aligned with the 2014 IAM Competences Framework, the requirements of ISO 55001 and the GFMAM Asset Management Landscape.





Advanced Series Sessions Summary



The Practice of Asset Management:

Adv1.1 Key Asset Management Concepts

Adv1.2 Alignment

Adv1.3 Risk Appetite

Adv1.4 AM Policy

Adv1.5 AM Objectives

Adv1.6 SAMP or top level AM Strategy

Adv1.7 Asset Management System

Adv1.8 The Role of Top Management & Governance

Adv1.9 Where are you now?

Adv1.10 Where do you want to go?



Asset Information & Knowledge

Adv2.1 Principles of Asset Information Mgmt.

Adv2.2 The Asset Inventory

Adv2.3 Work Management Systems

Adv2.4 Information Quality & Standards

Adv2.5 Managing Asset Information

Adv2.6 Asset Information Processes

Adv2.7 Asset Information Systems

Adv2.8 Knowledge Management

Adv2.9 Current Topics in Asset Information



People & Asset Management

Adv3.1 Asset Management, Org. and Culture

Adv3.2 AM Leadership

Adv3.3 Organizational Structure

Adv3.4 Organizational Culture

Adv3.5 AM Competence

Adv3.6 Communication

Adv3.7 Managing Change

Adv3.8 The AM Team



Lifecycle Decisions

Adv4.1 Defining & Delivering Lifecycle Activities

Adv4.2 Acquisition: Business Needs including Demand

Adv4.3 Acquisition: Capital Investment Decisions

Adv4.4 Acquisition: Construction Projects

Adv4.5 Review of Reliability Engineering

Adv4.6 Operations & Asset Management

Adv4.7 Asset Failures

Adv4.8 Maintenance Strategies

Adv4.9 Asset Condition

Adv4.10 Refurbishment

Adv4.11 Strategic Failure Modes

Adv4.12 Review of Sustainability



Understanding Whole Life

Costs & Risks

Adv5.1 Overview of Lifecycle Costs

Adv5.2 Building a Whole Life Cost model

Adv5.3 Model-Building Best Practice

Adv5.4 Modelling Other Costs

Adv5.5 Comparing Options using WLC models



Contractor & Supplier Management

Adv6.1 Risks and benefits of outsourcing

Adv6.2 Main types of 3rd party work

Adv6.3 Principles of procurement

Adv6.4 The right contract for the job

Adv6.5 Managing contracts and suppliers

Adv6.6 The role of Asset Managers

Adv6.7 Financial Terms





The Practice of Asset Management:

Applying Asset Management decision making principles

Key Topic areas	What is covered
Key Asset Management Concepts	 Definitions and challenges of Asset Management Three waves of Asset Management The role of the Asset Management Practitioner
Alignment	 Principle of alignment Demonstrating importance of alignment within your own organization
Risk Appetite	 Understanding risk appetite within an Asset Management context Applying risk appetite to decision making
AM Policy	 Purpose of the policy within an Asset Management System Policy development process Communicating the AM policy
AM Objectives	Relationship between oganization objectives, levels of service and AM objectives
SAMP or top level AM Strategy	 Addressing organizational challenges Content of the SAMP Incorporation of enablers within the SAMP
Asset Management System	Implementation of an Asset Management System Aligning artefacts within an Asset Management System
Top Management & Governance	 The role of top management in Asset Management The steering group Governance of Asset Management improvement
Where are you now?	Assessing Asset Management capability through maturity assessment
Where do you want to go?	 The improvement roadmap Applying lessons learned The business case for ISO55001 certification

Duration

10 hours

Delivery Method

Instructor-led Training

Target Audience

All senior management / every department head

Includes

Hosted Instructor Led Training sessions with experienced Asset Management Professionals

Course Catalogue





Asset Information & Knowledge:

The role of asset data, information and asset knowledge in strategic Asset Management

Key Topic areas	What is covered
Principles of Asset Information Management	 The role of information in Asset Management Information types Information linked to decision making
The Asset Inventory	Defining the required inventory and hierarchy Introducing the asset information model
Work Management Systems	How the technology systems support Asset Management Relationship between work related data and information
Information Quality & Standards	 Using standards to define information requirements Data quality criteria Quality improvement activities
Managing Asset Information	 • The Asset Information Strategy • The lifecycle of asset information • Asset Information Mangement System • Roles in information management
Asset Information Processes	Creation of asset information Encouraging timely data provision
Asset Information Systems	• Understanding the system landscape• Selecting the right system• Consideration for user interfaces
Knowledge Management	• • Sharing knowledge for continuous improvement • Knowledge supporting decision making
Current topics in Asset Information	 • Asset health indexes Digital asset management Digital twin

Duration

10 hours

Delivery Method

Instructor-led Training

Target Audience

All senior management / every department head

Includes

Hosted Instructor Led Training sessions with experienced Asset Management Professionals.

Course Catalogue





People & Asset Management:

Building the right organization to realise the potential of your people

Key Topic areas	What is covered
Asset Management, Organization & Culture	 Recognizing the relationship between AM, Organizational design and Culture Organization climate Understanding capabilities
AM Leadership	 Importance of good leadership in Asset Management Qualities required for strong leaders
Organizational Structure	 Symptoms of ineffective organizational structure The impact of silos Looking for the optimal organizational structure for Asset Management
Organizational Culture	 Defining desired culture Changing the culture through the management model Selling Asset Management to the unconvinced
AM Competence	 The Competency Framework Developing competence Professionalizing Asset Management
Communication	 Developing the communications strategy and plan Getting communications right from the start
Managing Change	 Change programs The factors of change Change management model Contributions to change
The AM Team	The responsibilities of the Asset Management team The skills required of an Asset Management practitioner

Duration

10 hours

Delivery Method

Instructor-led Training

Target Audience

All senior management / every department head

Includes

Hosted Instructor Led Training sessions with experienced Asset Management Professionals.





Key Topic areas	What is covered
Defining & Delivering Lifecycle Activities	Exploring the scope of lifecycle decisions and their impacts on the rest of the lifecycle
Acquisition: Business Needs including Demand	Demand forecasting and Asset Management Demand modelling
Acquisition: Capital Investment Decisions	The Business Case Financial appraisal Asset investment planning
Acquisition: Construction Projects	The role of the project team Handover and operational integration
Review of Reliability Engineering	Considering reliability through the lifecycle RAMS requirements
Operations & Asset Management	 Operations in the lifecycle Managing access, downtime and outages Understanding unplanned outages

Continued overleaf...





Continued from previous page

Key Topic areas	What is covered
Asset Failure	Defining and Analyzing failure data
Maintenance Strategies	Maintenance optimization Consideration of maintenance tools
Asset Condition	Relationship of condition on asset performance Asset Health Indices
Refurbishment	Using partial replacement and midlife overhaul to achieve the optimal asset life
Strategic Failure Modes	Recognizing when an asset system can no longer deliver it's requirements Options for dealing with strategic failure modes
Review of Sustainability	Environmental and business sustainability in Asset Management

Duration

10 hours

Delivery Method

Instructor-led Training

Target Audience

All senior management / every department head

Includes

Hosted Instructor Led Training sessions with experienced Asset Management Professionals.





Understanding Whole Life Costs & Risks:

Modelling cost and risk data to support decisions across the asset lifecycle

Key Topic areas	What is covered
Overview of Lifecycle Costs	How costs in each lifecycle stage interact Calculating the optimum life of an asset
Building a Whole Life Cost model	Sources of data to inform the model Dealing with incomplete data
Model-Building Best Practice	Creating a usable model Components of a good practice model
Modelling other Costs	The effect of asset deterioration on the model The cost of the consequence of asset failure
Comparing Options using WLC models	Running multiple scenarios to determine most appropriate option Assessing the impact of different capital options

Duration

10 hours

Delivery Method

Instructor-led Training

Target Audience

All senior management / every department head

Includes

Hosted Instructor Led Training sessions with experienced Asset Management Professionals.

Course Catalogue





Contractor & Supplier Management:

Selection, use and management of external service contractors and suppliers

Key Topic areas	What is covered
Risks and benefits of outsourcing	Why outsourcing is important What the standards say
Main types of 3rd party work	 Comparison of types of 3rd party work Categorization of spend to drive value
Principles of procurement	 Taking a total cost of ownership approach Strategic Sourcing
The right contract for the job	 Contract types From need to contract Contract rules Negotiating the contract
Managing contracts and suppliers	 Performance requirements within contracts Measuring performance against the contract The relationship with suppliers
The role of Asset Managers	Contribution of Asset Management to the process of contract development and procurement Other roles within contracting
Financial Terms	 Understanding the financial terms used within Asset Management Relationship between financial accounting and Asset Management decision making

Duration

10 hours

Delivery Method

Instructor-led Training

Target Audience

All senior management / every department head

Includes

Hosted Instructor Led Training sessions with experienced Asset Management Professionals.



Ldr Leadership Series

The Leadership Series is aimed at providing a working understanding of the management system framework's key principles which can be used to better prioritize investment decision making and set the strategic direction for the culture and operating model of the organization.



Leadership Series Sessions Summary

Ldr0	Introduction

Introduction to the AM 4.0 Framework

Ldr1.1 Challenges Facing Leadership Ldr1.2 Executing Strategy

Ldr1.3 Value, Risk & Governance

The Role of Leadership in Culture, Ldr2 Alignment and Capability Building

Ldr2.1 Leadership

Ldr2.2 People

Ldr2.3 Organizational Design & AM Framework

Ldr3 Delivering on Strategic Objectives

Ldr3.1 Understanding Stakeholders

Ldr3.2 Value-based Decision-making

Ldr3.3 Net Zero

Meeting Financial and Budget Constraints Ldr4

Ldr4.1 Strategic Planning

Ldr4.2 Spending Trade-offs

Ldr4.3 Tools & Data

Governance & Risk Ldr5

Ldr5.1 Risk

Ldr5.2 Governance

Ldr5.3 Resilience

Role of Digital in AM 4.0 Ldr6

Ldr6.1 Introduction to Digital

Ldr6.2 Maximizing Value from Digital

Ldr6.3 Digital Twins

Performance Management & Driving Improvement Ldr7

Ldr7.1 Performance Management Framework

Ldr7.2 Measuring Performance

Ldr7.3 Continuous Improvement

De-Risking Major Capital Programs Ldr8

Ldr8.1 Program Management Office

Ldr8.2 Systems Integration

Ldr8.3 Successful Handover to Operations

Course Catalogue





Introduction to the AM 4.0 Framework:

How to improve execution of the operating model

Key Topic areas	What is covered
Challenges Facing Leadership	 Customer centric focus – greater agility Upskilling in the new normal to meet strategic outcomes Deliver on promise for continuous improvement Eliminate silos and improve employee retention
Executing Strategy	 AM 4.0: A framework for integration of organisational activities Implementing the Operating Model in practice Meeting financial and budget constraints: understand impact on P&L Role of digital in executing strategy
Value, Risk & Governance	 Understanding levels of service & willingness to pay Building a customer-centric value model Ensuring risks are visible and consistent with risk appetite Integrating carbon reduction & ESG to deliver better outcomes

Duration

2 to 3 hours

Target Audience

All senior management / every department head

Delivery Method

eLearning with recorded webinars

- Case studies of good practice / successes / benefits
- Examples of poor practice& the consequences

Course Catalogue





The Role of Leadership in Culture, Alignment and Capability Building:

Building the right organization to realise the potential of your people

Key Topic areas	What is covered
Leadership	 Infrastructure Challenges and Leading Infrastructure Lead from the top Understanding Organizational Capabilities Vision for the Future Executing Strategy
People Capability Building	 The key capability: people Resourcing challenges Key skills for the future Building an AM function you can rely on A people strategy is critical Culture
Your Decision Capability	 Business Capabilities in more Detail How this helps with technology What technology can and cannot do for you Information is the goal – it's not data Who, where, how of decision making

Duration

2 to 3 hours

Target Audience

All senior management / every department head

Delivery Method

eLearning with recorded webinars

- Case studies of good practice / successes / benefits
- Examples of poor practice
 & the consequences

Course Catalogue





Delivering on Strategic Objectives:

How to Integrate organisational activities to deliver strategic outcomes

Key Topic areas	What is covered
Understanding Stakeholders	 Stakeholder requirements and how to elicit them Levels of service and willingness to pay Understanding and articulating risk appetite Interpreting implications of legislation and regulation
Value-based Decision-making	 Understanding the value chain Developing a value framework Embedding value-based decision-making Measurement of value delivery
Net Zero	Carbon accounting Alignment to Value Framework Decisions which support Net Zero

Duration

2 to 3 hours

Target Audience

All senior management / every department head

Delivery Method

eLearning with recorded webinars

- Practical worked example (relevant sector) to walk through the process of developing a value framework from stakeholder requirements.
- Introduce examples risk appetite part way through.
- Introduce the use of a capability model to provide the framework for integration
- Examples of use cases from other organisations in using capability model to execute the operating model in practice

Course Catalogue





Meeting Financial and Budget Constraints:

Using strategic planning tools to deliver performance and cost outcomes at the lowest cost

Key Topic areas	What is covered
Strategic Planning	 Strategic planning process aligned to business objectives Application of value framework to prioritise investments Importance of lifecycle approach in evaluation of priorities Role of risk management framework
Spending Trade-offs	Understanding constraints – financial and other resources Linking investment prioritisation to P&L benefits Trade-off between Capex and Opex Delivering performance and risk outcomes at lowest cost
Tools & Data	Introduction to Asset Investment Planning (AIP) Tools How to integrate AIP tools into the strategic planning process Importance of good asset and cost data How to make progress without perfect data

Duration

2 to 3 hours

Target Audience

All senior management / every department head

Delivery Method

eLearning with recorded webinars

- Practical worked example to apply the value framework from module 2 to prioritise investments
- Examining the impact of these investments on risk
- Exploring whether resulting risks are within risk appetite
- Exploring the different outcomes when applying different decision-making criteria (e.g. initial capital vs lifecycle costs vs consideration of risk).

Course Catalogue





Governance & Risk:

Ensuring the business is resilient to threats and managing its risks

Key Topic areas	What is covered
Risk	 Corporate risk & risk appetite Integration of asset risks and corporate risks Visualization of risks, challenge & debate 3 lines of defence for assurance
Governance	 Directors' accountabilities Using management systems to embed good governance Delegated authorities – cost and risk Governance reporting & ESG
Resilience	 External threats to asset intensive businesses Assessing Business Resilience to these threats Mitigation of resilience risks Adaptation to resilience risks

Duration

2 to 3 hours

Target Audience

All senior management / every department head

Delivery Method

eLearning with recorded webinars

- Practical worked examples to explore the decisions Executives face when they have insufficient investment to meet the stated risk appetite
- Worked examples on how to reconcile financial budgets / constraints with risk appetite when there are insufficient funds
- Examples of good governance processes
- Examples of resilience approaches

Course Catalogue





Role of Digital in AM 4.0:

Exploiting digital technologies to drive efficiencies and value-based decision-making

Key Topic areas	What is covered
Introduction to Digital	 Opportunities that digital transformation presents What is digital? Data as an asset Risks associated with digital adoption - typical pain points
Maximising Value from Digital	Where to start – digital maturity and roadmaps Framework for successful adoption of digital solutions Typical solutions and how they integrate Importance of data management
Digital Twins	 Understanding the digital twin Levels of digital twin maturity Opportunities and risks from adopting BIM Lifecycle approach to adoption of digital twins

Duration

2 to 3 hours

Target Audience

All senior management / every department head

Delivery Method

eLearning with recorded webinars

- Practical exercise to develop a digital roadmap for a typical business.
- Practical guidance on how to create the business case for a digital roadmap.
- Practical guidance on how data can be valued
- Typical use cases for digital twins

Course Catalogue





Performance Management & Driving Improvement:

Enabling the organisation to drive improvements in performance and be agile in responding to changing circumstances

Key Topic areas	What is covered
Performance Management Framework	 Understanding the outcomes to deliver the strategic objectives Creating a corporate scorecard that aligns with the value framework Creating a KPI hierarchy that aligns with the corporate scorecard Importance of Lead and Lag indicators
Measuring Performance	 Automating performance reporting from digital systems Understanding normal vs special variation Importance of visualisation boards and performance meetings Communication of performance to all stakeholders
Continuous Improvement	 Introduction of LEAN techniques, benefits & measures Identifying inefficiencies and improvements Using the management system to drive continuous improvement Agility to respond to changing circumstances

Duration

2 to 3 hours

Target Audience

All senior management / every department head

Delivery Method

eLearning with recorded webinars

- Examples of a Performance Management Framework
- Practical guidance on how to create a Performance Management Framework
- Examples on measuring performance with automation and traditional methods
- Examples of LEAN methods and their application

Course Catalogue





De-risking Major Capital Programs:

Enabling successful handover of major programs into operations on time and to budget

Key Topic areas	What is covered
Program Management Office	 Setting up programs for success Role of a PMO & typical timeline for introduction of PMO Embedding levels of service and KPIs into programs Ensuring alignment of all program stakeholders
Systems Integration	 Integration of physical and digital assets through the project Importance of clear ownership of systems integration Supply chain collaboration & incentives Using capability models to facilitate systems integration
Successful Handover to Operations	 Ensuring handover is a key driver in the project objectives Begin with the end in mind – setting the right outcomes from the outset Incentivising the successful handover of the physical and digital assets Ensuring alignment of all project stakeholders

Duration

2 to 3 hours

Target Audience

All senior management / every department head

Delivery Method

eLearning with recorded webinars

- Examples of PMO organisation, roles and application
- Guidance on System Integration and collaboration within the supply chain
- Practical guidance on achieving successful handover
- Examples of handover of both physical and digital assets



For more information, get in touch

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