

GENERAL

Holders of this certificate will have a strategic understanding of the contribution that they make to the successful application of the principles of asset management in their organization. A CFAM provides a strategic contribution within a broad set of guidelines and objectives, displaying a high degree of synthesis and an ability to readily solve complex asset management problems.

CFAMs are responsible for asset management projects and programs in the most complex sense, for:

- Bringing strategic knowledge to bear from multiple disciplines to develop solutions to complex problems and issues,
- Ensuring that both technical and non technical considerations are properly integrated and risks managed appropriately.

A CFAM must demonstrate Level 4 competencies and meet all the requirements of the AM Council's Certification scheme, in relation to projects and activities that involve the following:

KNOWLEDGE AND UNDERSTANDING

A knowledge background equivalent to that required for the Level 4 competencies, as determined by the AM Council.

Where the person seeking accreditation has a primary engineering background, an accredited four year Bachelor of Engineering degree or recognised alternative plus post tertiary business experience and/or qualifications with in-depth knowledge across the disciplines of asset management will apply. Where an applicant has another primary background, a similar requirement will exist.

In general, the applicant's knowledge and understanding will include the ability to:

- Tackle complex and challenging asset management problems, working from first principles to make reliable predictions of outcomes;
- Ensure that all disciplines and aspects of a project are fully integrated and soundly based in theory and fundamental principles.
- Understand how new developments relate to established asset management theory and practice; and
- Fully integrate all the disciplines associated with asset management.

COMPETENCY

General competencies include:

- Addressing infrequently encountered issues and problems, outside those encompassed by standards and codes of practice for professional asset management.
- Engagement with strategic asset management issues.
- Resolution of complex strategic problems arising from interactions between disciplines, including interaction with stakeholders and the community.
- Strategic integration of all asset management disciplines (theory and practice) to form a complete and consistent system.
- Ability to conceptualise alternative strategic approaches, comprehend and define the risks and benefits of each, using the collective considerations from asset management discipline professionals.

Specific competencies that are relevant are listed in the Appendix.

RESPONSIBILITY FOR OUTCOMES

CFAMs are able to manage complex and strategic project/enterprise outcomes in a range of contexts, namely.

- Interactions between the asset management system and the environment in which it operates, and the integration of social, legal, environmental and economic intended outputs/outcomes over the lifetime of the product or enterprise.
- Effective interaction and integration with other disciplines and professions into an effective project or enterprise.
- Interpreting possibilities to society, business, and government, and ensuring that policy decisions are properly informed.
- Identification and integration of asset management professional disciplines into a cohesive and integrated asset management body of knowledge.

MANAGEMENT ROLES

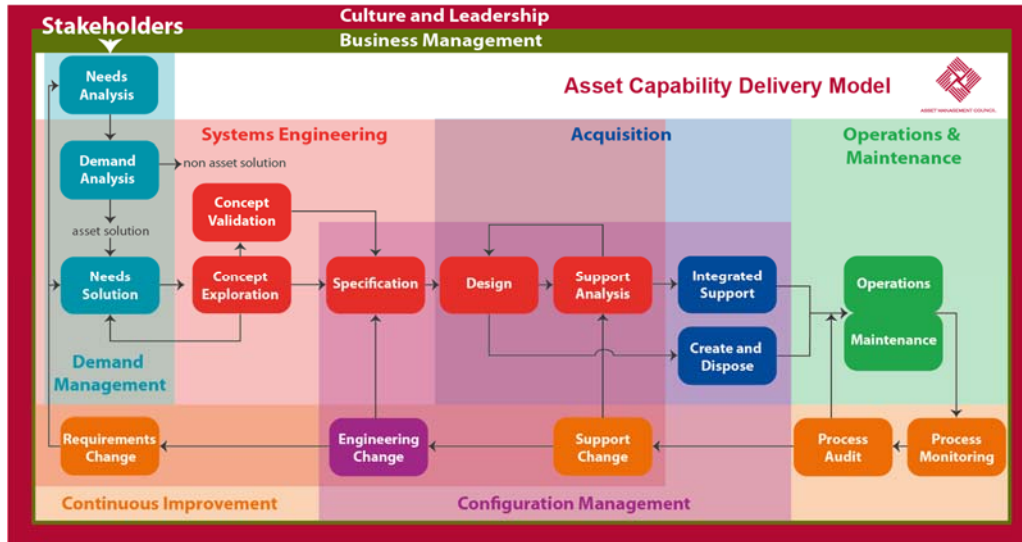
A CFAM will lead teams appropriate to the above significant responsibilities.

In asset management roles, a CFAM should clearly conceptualise risk across all facets of asset management, namely:

- Identifying, assessing and managing risk, in relation to all the disciplines of asset management, specific and complex projects, the community and the environment;
- Ensuring that costs, risks and limitations for all aspects of asset management are properly understood with respect to the desirable outcomes; and
- Recognising limits to own knowledge and seeking advice to supplement own knowledge and experience.

APPENDIX: SPECIFIC COMPETENCIES FOR CFAM

Mapped to Asset Management Council Delivery Model



Business Management

- Develops Asset Management Strategies
- Develops Life Cycle Cost Strategies

Culture and Leadership

- Defines Organisational Culture

Systems Engineering

Concept Exploration

- Analyses Concept Exploration Environment
- Develops Investment Options Strategies

Design

- Provides Specialist Advice on Design

Support Analysis

- Analyses Integrated Support Environment
- Analyses Supply Chain Environment
- Defines Competencies Required to Implement Technical Regulatory Framework
- Develops Integrated Support Strategies
- Develops Technical Data and Information Strategies
- Provides Specialist Advice on Integrated Support Processes and Procedures

Acquisition

Integrated Support

- Develops Supply Chain Strategies

Create and Dispose

- Develops Asset Disposal Strategies
- Develops Commissioning Strategies
- Develops Construction Strategies

Operations and Maintenance

Operations

Develops Operations Strategies

Maintenance

Analyses Maintenance Management Environment

Develops Maintenance Management Strategies

Provides Specialist Advice on Maintenance Management

Specifies Competencies Required to Support Maintenance Management Strategies

Configuration Management

Develops Configuration Management Strategies

Provides Specialist Advice on Configuration Management

Continuous Improvement

Process Audit

Analyses Asset Management Environment

Analyses Configuration Management Environment

Mapped to Landscape

Please note that some sets have relevancy to more than one subject and are therefore mapped to more than one landscape subject area.

Asset Management Strategy and Planning

Asset Management Strategy

Provides Specialist Advice on Design

Asset Management Decision-Making

Ageing Assets Strategy

Analyses Integrated Support Environment

Analyses Supply Chain Environment

Defines Competencies Required to Implement Technical Regulatory Framework

Develops Integrated Support Strategies

Develops Technical Data and Information Strategies

Provides Specialist Advice on Integrated Support Processes and Procedures

Resourcing Strategy and Optimisation

Analyses Integrated Support Environment

Analyses Supply Chain Environment

Defines Competencies Required to Implement Technical Regulatory Framework

Develops Integrated Support Strategies

Develops Technical Data and Information Strategies

Provides Specialist Advice on Integrated Support Processes and Procedures

Shutdowns and Outage Strategy and Optimisation

Analyses Integrated Support Environment

Subject Group	Asset Management Subject
Asset Management Strategy and Planning	Asset Management Policy
	Asset Management Strategy
	Demand Analysis
	Strategic Planning
	Asset Management Plan
Asset Management Decision-Making	Whole-life Cost & Value Optimisation
	Operations & Maintenance Decision-Making
	Capital Investment Decision-Making
	Resourcing Strategy & Optimisation
	Shutdowns & Outage Strategy & Optimisation
Ageing Assets Strategy	
Lifecycle Delivery Activities	Technical Standards & Legislation
	Asset Acquisition & Commissioning
	Systems Engineering
	Configuration Management
	Maintenance Delivery
	Reliability Engineering
	Asset Operations
	Resource Management
	Shutdown & Outage Management
	Fault & Incident Response
Asset Rationalisation and Disposal	
Asset Knowledge Enablers	Asset Information Strategy
	Asset Knowledge Standards
	Asset Information Systems
Organization and People Enablers	Asset Data and Knowledge
	Contract & Supplier Management
	Asset Management Leadership
	Organizational Structure & Culture
Risk & Review	Competence & Behaviour
	Criticality, Risk Assessment and Management
	Contingency Planning & Resilience Analysis
	Sustainable Development
	Weather and Climate Change
	Asset & Systems Change Management
	Assets & Systems Performance & Health Monitoring
	Management Review, Audit & Assurance
Accounting Practices	
Stakeholder Relations	

Analyses Supply Chain Environment
Defines Competencies Required to Implement Technical Regulatory Framework
Develops Integrated Support Strategies
Develops Technical Data and Information Strategies
Provides Specialist Advice on Integrated Support Processes and Procedures

Lifecycle Delivery Activities

Configuration Management

Develops Configuration Management Strategies
Provides Specialist Advice on Configuration Management

Asset Acquisition and Commissioning

Develops Asset Disposal Strategies
Develops Commissioning Strategies
Develops Construction Strategies

Asset Operations

Develops Operations Strategies

Asset Rationalisation and Disposal

Develops Asset Disposal Strategies
Develops Commissioning Strategies
Develops Construction Strategies

Asset Knowledge Enablers

Asset Data and Knowledge

Analyses Integrated Support Environment
Analyses Supply Chain Environment
Defines Competencies Required to Implement Technical Regulatory Framework
Develops Integrated Support Strategies
Develops Technical Data and Information Strategies
Provides Specialist Advice on Integrated Support Processes and Procedures

Organisation and People Enablers

Asset Management Leadership

Defines Organisational Culture

Competence and Behaviour

Defines Organisational Culture

Organizational Structure & Culture

Defines Organisational Culture

Risk & Review

Contingency Planning and Resilience Analysis

Analyses Integrated Support Environment
Analyses Supply Chain Environment
Defines Competencies Required to Implement Technical Regulatory Framework
Develops Integrated Support Strategies
Develops Technical Data and Information Strategies
Provides Specialist Advice on Integrated Support Processes and Procedures

Management Review, Audit and Assurance

Analyses Asset Management Environment

Analyses Configuration Management Environment

Sustainable Development

Develops Asset Management Strategies

Develops Life Cycle Cost Strategies

Accounting Practices

Develops Asset Management Strategies

Develops Life Cycle Cost Strategies

Weather and Climate Change

Develops Asset Management Strategies

Develops Life Cycle Cost Strategies

Competency sets not allocated to Landscape Subjects

Analyses Concept Exploration Environment

Analyses Maintenance Management Environment

Develops Investment Options Strategies

Develops Maintenance Management Strategies

Develops Supply Chain Strategies

Provides Specialist Advice on Maintenance Management

Specifies Competencies Required to Support Maintenance Management Strategies