

# 3000\_114 Competency Standard: Certified Practitioner in Asset Management (CPAM)

## GENERAL

Holders of this certificate will have an understanding of the contribution that they make to the successful application of the principles of asset management in their organization.

Their contribution will be generally operational within well defined processes and procedures.

CPAMs are responsible for implementing aspects of asset management projects and programs in an operational sense, for:

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

A CPAM must demonstrate Level 2 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 2 competencies, as determined by the AM Council.

Where the person seeking accreditation has a primary engineering background, an accredited three or four year Engineering diploma or degree or recognised alternative, with knowledge in one or more fields of engineering 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 asset management problems using defined processes to make reliable predictions of outcomes; and
- Ensure that specific aspects of a project are soundly based in theory.
- Understand how new developments relate to established practice and to other disciplines with which they may interact.

## COMPETENCY SETS

General competencies include:

- Addressing encountered issues and problems, within those encompassed by standards and codes of practice for professional asset management.
- Engagement with asset management issues and resolution of problems arising from interactions between such issues, including interaction with other asset management disciplines.
- Some integration of functional elements to form a consistent system.
- Ability to conceptualise alternative approaches, define the risks and benefits of each.

The specific competencies relevant to CPAM are in the Appendix.

## RESPONSIBILITY FOR OUTCOMES

CPAMs are able to manage specific aspects of project/enterprise outcomes in a range of contexts, namely.

- Interactions between aspects of the asset management system and the environment in which it operates, and some integration of social, legal, environmental and economic intended outputs/outcomes.
- Effective interaction and integration with other disciplines and professions for specific asset management activities requiring detail professional knowledge.
- Interpreting possibilities, within the constraints of an approved process, to society, business, and government, and ensuring that policy decisions are properly informed.

## MANAGEMENT ROLES

A CPAM may assist in managing teams appropriate to the above responsibilities.

In asset management roles, a CPAM should ably implement requirements across specific facets of asset management, namely:

- Identifying, assessing and managing risk, in relation to clients, users, the community and the environment;
- Ensuring that costs, risks and limitations 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 CPAM

### Asset Management Principles

#### *Capabilities*

Maintains customer focus and relationships

#### *Learning Organisations*

- Core Applies Decision Making Processes and Procedures
- Accesses the Internet
- Applies problem solving techniques
- Accesses and Interprets Technical Data and Information
- Composes workplace documents

#### *Level of Assurance*

- Supervises Configuration Management
- Applies Configuration Management Processes and Procedures
- Maintains Configuration Management Documentation
- Applies Asset Management Processes and Procedures

#### *Output Focus*

Designs and develops text documents

### Asset Management Processes

#### *Financial*

- Participates in quality processes
- Core Participates in environmental work practices
- Applies Life Cycle Cost Processes and Procedures
- Prepares Specifications for the Supply of Materials and Services
- Applies Asset Valuation Processes and Procedures
- Applies Basic Accounting Methods
- Core Participates in safety work practices

#### *Leadership and Culture*

- Creates and uses spreadsheets
- Participates in workplace change
- Accesses and uses resources
- Communicates in the workplace
- Creates and uses databases
- Contributes in a Team Environment
- Gives and receives workplace feedback
- Allocates Resources to Projects

Pursues continuing professional development

## Configuration Management

### *Engineering Change*

- Core Prepares Cost Justification Proposals
- Applies Engineering Change Processes and Procedures

## Continuous Improvement

### *Process Audit*

- Applies Root Cause Analysis Methods
- Applies Lean Thinking Methods
- Applies Technical Compliance Management Processes and Procedures

### *Process Change*

- Applies Process Change Processes and Procedures
- Core Participates in improvement processes

### *Process Monitoring*

- Core Applies Data Analysis Methods
- Analyses Condition Monitoring Data
- Analyses Performance Indicators
- Prepares General Reports
- Participates in the incidents investigation
- Maintains Problem Reporting and Incident Recording Documentation
- Applies Statistical Process Control Methods
- Core Applies Problem Reporting and Incident Recording Processes and Procedures

## Demand Management

### *Demand Analysis*

- Communicates with Stakeholders
- Applies Asset Solution Processes and Procedures
- Applies Demand Analysis Processes and Procedures
- Applies Demand Management Processes and Procedures

## Integrated Support

### *Computer Support*

- Utilises Computer Systems
- Core Maintains Integrated Support Documentation
- Implements Computer Systems

### *Spares*

- Maintains Materials Cataloguing Documentation
- Applies Materials Cataloguing Methods
- Plans Distribution of Spares and Supplies
- Applies Inventory (Spare Parts) Level Methods

### *Support Analysis*

- Applies Technical Data and Information Processes and Procedures
- Applies RCM Analysis
- Applies FMEA/FMECA Analysis
- Core Applies Reliability Analysis Methods
- Applies Reliability Modelling Methods
- Applies Supply Chain Processes and Procedures

Applies Support Analysis Processes and Procedures  
Applies Asset Renewal Methods  
Applies Regulatory Frameworks Processes and Procedures  
Prepares Operating Instructions  
Applies Asset Renewal Processes and Procedures  
Maintains Supply Chain Documentation  
Applies Integrated Support Processes and Procedures

## **Operations and Maintenance**

### *Maintenance Management*

Applies Maintenance Management Processes and Procedures  
Plans Shutdowns  
Forecasts Maintenance Work  
Plans Minor Projects  
Schedules Maintenance Work  
Allocates Resources to Maintenance Work  
Supervises Maintenance Work  
Forecasts Maintenance Costs  
Utilises Computerised Work Management System  
Plans Maintenance Work  
Maintains Maintenance Management Documentation  
Prepares Maintenance Work Instructions  
Applies Work Management Processes and Procedures

### *Maintenance Planning*

Develops Preventive Maintenance Tactics

### *Operations Management*

Supervises Operations Work  
Maintains Operating Documentation  
Plans Operations Work  
Applies Operations Management Processes and Procedures  
Schedules Operations Work

## **Systems Engineering**

### *Commissioning*

Maintains Commissioning Documentation  
Applies Commissioning Processes and Procedures  
Supervises Commissioning Work

### *Concept Exploration and Validation*

Applies Reliability Test Plans  
Applies Research  
Prepares Investment Options Proposals  
Designs Reliability Test Plans  
Applies Concept Exploration Processes and Procedures

### *Construction*

Applies Construction Processes and Procedures  
Prepares Construction Reports  
Maintains Construction Documentation  
Allocates Resources to Construction Work  
Plans Construction Work

Supervises Construction Work

*Create/Dispose*

Plans Asset Disposal Work

Applies Asset Disposal Processes and Procedures

*Design*

Documents Design

Applies Design Verification and Validation Processes and Procedures

Plans Design Verification and Validation Work

Applies Design Processes and Procedures

Applies Technical Design Methods

Maintains Design Verification and Validation Documentation

*Needs Definition*

Applies Needs Definition Processes and Procedures

*Specification*

Applies Specification Processes and Procedures