

3000_116 Competency Standard: Certified Senior Practitioner in Asset Management (CSAM)

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. A Senior Practitioner has a tactical contribution within a broader set of guidelines and objectives, and a degree of synthesis of strategies and higher level objectives.

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

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

A CSAM must demonstrate Level 3 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 3 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, with in-depth knowledge across one or more broad fields of engineering will apply. Where an applicant has another primary background, a similar requirement will exist.

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

- Tackle challenging asset management problems and work from first principles to make reliable predictions of outcomes; and
- Ensure that all aspects of a project are soundly based in theory and fundamental principles.
- Understand how new developments relate to established theory and practice and to other disciplines with which they may interact.

COMPETENCY SETS

General competencies include:

- Addressing infrequently encountered issues and problems, outside those encompassed by standards and codes of practice for professional asset management.
- Engagement with wide ranging asset management issues and resolution of significant problems arising from interactions between such issues, including interaction with stakeholders and other asset management disciplines.
- Integration of all functional elements to form a complete and consistent system.
- Ability to conceptualise alternative approaches, comprehend and define the risks and benefits of each, use informed professional judgement.

Specific competencies that are relevant are listed in the Appendix.

RESPONSIBILITY FOR OUTCOMES

CSAMs are able to manage significant 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.

MANAGEMENT ROLES

A CSAM may lead or manage teams appropriate to the above significant responsibilities.

In asset management roles, a CSAM should clearly conceptualise risk across all 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 CSAM

Asset Management Principles

Learning Organisations

- Audits Asset Management Strategies
- Core Manages information
- Core Manages innovation

Level of Assurance

- Core Manages Decision Making Processes and Procedures
- Manages Configuration Management Processes and Procedures
- Authorises Projects
- Core Develops Configuration Management Processes and Procedures
- Core Develops Decision Making Processes and Procedures
- Audits Asset Configuration
- Core Defines Project Roles and Responsibilities
- Develops Asset Management Processes and Procedures
- Core Develops Legal Compliance Processes and Procedures
- Implements Asset Management Strategies
- Core Implements Configuration Management Strategies
- Core Specifies Project Outcomes
- Specifies Performance Indicators for Asset Management

Asset Management Processes

Financial

- Develops Life Cycle Cost Processes and Procedures
- Manages Life Cycle Processes and Procedures
- Core Prepares Contracts
- Prepares Asset Management Budgets
- Core Manages Environmental Performance
- Selects Asset Valuation Methods

Leadership and Culture

- Core Presents a professional image
- Core Manages non-routine, complex technical situations
- Core Manages conflict
- Core Manages effective workplace relationships

- Core Manages Organisational Capability
- Core Manages People
 - Allocates Resources to Asset Management Processes and Procedures
 - Manages self
 - Implements Organisational Culture
- Core Facilitates a Team Environment

Configuration Management

Engineering Change

- Develops Engineering Change Solutions

Continuous Improvement

Process Audit

- Audits Configuration Management Processes and Procedures
- Audits Technical Data and Information Processes and Procedures
- Manages Problem Reporting and Incident Recording Processes and Procedures
- Audits Integrated Support Processes and Procedures
- Audits Maintenance Management Processes and Procedures
- Audits Compliance with Legal Requirements
- Audits Organisational Culture
- Audits Asset Management Processes and Procedures
- Audits Design Processes and Procedures
- Audits Operations Management Processes and Procedures
- Audits Design Verification and Validation Processes and Procedures
- Audits Organisational Structure

Process Change

- Manages Organisational Change

Process Monitoring

- Applies Benchmarking Processes and Procedures
- Specifies Performance Indicators for Maintenance Management
- Develops Problem Reporting and Incident Recording Processes and Procedures

Demand Management

Demand Analysis

- Identifies Stakeholders
- Identifies Stakeholders' Requirements
- Audits Stakeholders' Requirements

Integrated Support

Computer Support

- Specifies Requirements for Computer Support
- Manages Use of Computer Support

Packaging Handling Storage and Transport

- Audits Supply Chain Processes and Procedures

Support Analysis

- Selects Methods for Integrated Support
- Develops Supply Chain Processes and Procedures
- Allocates Resources to Technical Data and Information Management Processes and
- Implements Integrated Support Strategies

Develops Technical Data and Information Processes and Procedures
Selects Corrective Maintenance Methods
Manages Integrated Support Processes and Procedures
Selects Support Analysis Methods
Develops Integrated Support Processes and Procedures
Manages Supply Chain Processes and Procedures

Operations and Maintenance

Maintenance Management

Prepares Maintenance Budgets
Develops People
Manages Occupational Health and Safety
Implements Maintenance Management Strategies
Manages Maintenance Management Processes and Procedures
Allocates Resources to Maintenance Management Processes and Procedures
Manages Maintenance Work Processes
Develops Organisational Structures Roles and Responsibilities
Authorises Maintenance Work
Manages Shutdowns
Develops Maintenance Management Processes and Procedures

Operations Management

Allocates Resources to Operations Processes and Procedures
Manages Operations Management Processes and Procedures
Develops Operations Processes and Procedures

Systems Engineering

Commissioning

Develops Commissioning Processes and Procedures

Construction

Manages Construction Contracts
Prepares Construction Contracts
Develops Construction Processes and Procedures
Selects Construction Methods
Manages Construction Projects

Create/Dispose

Develops Asset Disposal Processes and Procedures
Allocates Resources to Asset Disposal Processes and Procedures

Design

Develops Design Processes and Procedures
Manages Design Processes and Procedures
Implements Strategies for Design Verification and Validation
Develops Design Verification and Validation Processes and Procedures

Needs Definition

Develops Needs Definition Processes and Procedures