Australian Government

DEFEA003 Use enterprise architecture tools

Release 1

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Modification History

Release	TP Version	Comments
2	DEF12V2	New unit.
1	DEF12V1	Primary release.

Unit Descriptor

This unit covers effective use of the agreed organisational enterprise architecture tools to permit the implementation of the enterprise architecture by various elements of the organisation. It includes operating enterprise architecture tools, and using operational, systems and technical enterprise architecture tools.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication. In a Defence context, this means that there is no civilian need to hold this unit in order to meet licensing, legislative, regulatory or certification requirements.

Application of the Unit

In practice, using enterprise architecture tools may overlap with other generalist or specialist public sector work activities such as acting ethically, complying with legislation, providing client service, undertaking research and analysis etc.

All aspects of the unit must be carried out in adherence to legislation, relevant standards, and organisational policy, procedure, and enterprise architecture guidelines.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a Unit of Competency.	Performance Criteria describe the required performance needed to demonstrate achievement of the element. Where **bold italicised** text is used, further information is detailed in the Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Operate enterprise architecture software tools	1.1 Enterprise architecture software tools are selected and used in accordance with organisational requirements.
	1.2 The enterprise information technology support system is used to operate the selected enterprise architecture tools as required.
2. Use enterprise architecture operational tools	2.1 Descriptions are prepared for high level operational concepts and operational node connectivity.
	2.2 Operational information exchange matrices are prepared.
	2.3 A command relationship chart is prepared and agreed upon.
	2.4 Business activities, relationships between activities, inputs and outputs are modelled.
	2.5 Business activity sequences and timings are prepared in accordance with the organisation's business rules, business activity reforms and critical sequences.
	2.6 A logical data model of business activity is prepared for submission to stakeholders.
3. Use enterprise architecture systems tools	3.1 Systems descriptions are prepared and agreed with stakeholders.
	3.2 Systems matrices are developed to meet project requirements and agreed with stakeholders where required.
	3.3 System technology forecasts are prepared and agreed to.
	3.4 System rules for the business architecture are modelled.
	3.5 The physical implementation of the logical data model of the business activity is modelled to capture

	systems requirements.
4. Use enterprise architecture technical tools	4.1 A technical system profile is created, and *support levels* required for the development of the intended system are gauged in consultation with stakeholders.
	4.2 An *information technology strategy* is developed for intended system development.
	4.3 Enterprise information technology performance requirements from enterprise business requirements are derived so that appropriate standards, configurations and products relevant to the intended system are developed.
	4.4 a technology standards report is created in which standards are described and forecast in accordance with business guidelines.

Required Skills and Knowledge

This describes the essential skills and knowledge and their level, required for this unit.

Required Skills

- undertake technical writing
- apply systems analysis
- use enterprise architecture software and hardware
- use effective communication with diverse stakeholders, including negotiation
- respond to diversity, including gender and disability
- apply procedures relating to work health and safety and environmental requirements in the context of using enterprise architecture tools

Required Knowledge

- undertaking technical writing
- applying systems analysis
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Evidence Guide

Critical aspects for assessment and evidence required to demonstrate competency in this unit	Assessment must confirm the ability to: • create and document at the required enterprise architecture using the agreed set of enterprise architecture tools • use enterprise architecture tools in a range of (3 or more) contexts (or occasions, over time) for an extended period with extensive reference to representative stakeholders **Consistency in performance** Evidence must be gathered over time in a range of contexts to ensure the person can achieve the unit outcome and apply the competency in different situations or environments
Context of and specific resources for assessment	**Context of assessment** Competency should be assessed in the workplace or in a simulated workplace environment. **Specific resources for assessment** • legislation, policy, procedures and protocols relating to enterprise architecture • capacity for monitoring and sampling over an extended period with extensive reference to representatives • case studies and workplace scenarios to capture the range of situations likely to be encountered when using enterprise architecture tools

Range Statement

The Range Statement relates to the Unit of Competency as a whole. It allows for different work environments and situations that may affect performance. *Bold italicised* wording in the Performance Criteria is detailed below.	
Systems descriptions may include:	• system interface description • systems communication description • systems functionality description • system evolution description • systems state transition description • systems event/trace description
Stakeholders may include:	• users • clients • union and association representatives • government • Ministers • public sector bodies that set standards such as information security standards, fraud control standards, ethics etc
Systems matrices may include:	• systems-to-systems matrix • operation activity to system function traceability matrix • system information exchange matrix • system performance parameters matrix
Support levels may be affected by:	• evolution/dissemination of enterprise architecture framework for organisation as a whole • training needs of groups involved with each view • continuing staff turnover

Information technology strategy assesses:	• the likely impact on the development of the intended system of:
	  • information technology legislation
	  • information technology design principles and patterns
	  • enterprise architecture framework components

Unit Sector(s)

Not applicable.