



**Australian Government**

# **ICTCYS613 Utilise design methodologies for security architecture**

**Release: 1**

# ICTCYS613 Utilise design methodologies for security architecture

## Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 6.0.

## Application

This unit describes the skills and knowledge required to design security architecture to organisation requirements, utilising specific design methodologies.

It applies to those who work in roles as senior network systems and server administrators, cyber security engineers, DevOps engineers and cyber security solutions architects and are responsible for designing security solutions.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

## Unit Sector

Cyber security

## Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to design security infrastructure	1.1 Analyse an organisation's operation and infrastructure to identify security requirements 1.2 Research and identify industry standard design methodologies utilised in security architecture design 1.3 Determine required security level and perimeters, security features and security mode 1.4 Establish all data types to be included in security architecture 1.5 Document all security architecture findings and confirm with required personnel
2. Design security architecture	2.1 Establish and document specific requirements and features of security requirements

	<p>2.2 Design and document security solution according to organisational requirements</p> <p>2.3 Submit documentation to required personnel for initial feedback</p>
3. Finalise security architecture	<p>3.1 Demonstrate security design utilises major industry standard design methodologies</p> <p>3.2 Demonstrate security design addresses organisational cyber security requirements</p> <p>3.3 Submit documentation to required personnel and seek and respond to feedback</p>

## Foundation Skills

*This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.*

SKILL	DESCRIPTION
Learning	<ul style="list-style-type: none"> <li>Monitors outcomes of decisions, considering results and identifying key concepts and principles that may be adaptable in the future</li> </ul>
Reading	<ul style="list-style-type: none"> <li>Interprets technical, manufacturer and organisational documentation to determine and confirm job requirements</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Prepares complex workplace documentation detailing findings and solutions using required structure, layout and required language</li> </ul>
Planning and organising	<ul style="list-style-type: none"> <li>Develops the operational detail in stages, regularly reviewing priorities and performance during implementation, and identifying and addressing issues</li> </ul>
Problem solving	<ul style="list-style-type: none"> <li>Uses understanding of context to recognise anomalies and subtle deviations to normal expectations, focusing attention and remedying problems as they arise</li> </ul>
Self-management	<ul style="list-style-type: none"> <li>Takes responsibility for identifying and considering organisational protocols and requirements</li> <li>Uses systematic processes, setting goals, gathering required information and identifying and evaluating options against agreed criteria</li> </ul>
Technology	<ul style="list-style-type: none"> <li>Demonstrates an understanding of principles, concepts, language and practices associated with the digital world</li> </ul>

## Unit Mapping Information

No equivalent unit. New unit.

## Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>