



Australian Government

ICTNWK549 Design ICT security frameworks

Release: 1

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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 evaluate Information and Communications Technology (ICT) security requirements for a new system and to plan for controls and contingencies.

It applies to individuals working in senior roles in the networking area who are required to design security for new ICT systems or similar.

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

Unit Sector

Networking

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. Research ICT security requirements	1.1 Analyse and determine statutory, commercial and application security requirements 1.2 Assess impact on the existing ICT system 1.3 Identify additional ICT security requirements 1.4 Document security requirements and submit for approval from required personnel
2. Conduct risk analysis	2.1 Identify internal and external security threats according to organisational security requirements 2.2 Develop security alleviation controls and contingencies according to organisational security requirements 2.3 Determine costs and additional resource requirements

ELEMENT	PERFORMANCE CRITERIA
	associated with contingencies 2.4 Conduct and document risk assessment recommendations 2.5 Submit to required personnel for feedback
3. Develop ICT security policy and operational procedures	3.1 Develop security policies and align to organisational security strategy 3.2 Create and document work procedures and align to organisational security policies 3.3 Document operating procedures 3.4 Submit all documentation to required personnel for feedback

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

SKILL	DESCRIPTION
Learning	<ul style="list-style-type: none"> Demonstrate operation from a broad conceptual plan, developing the operational detail in stages and regularly reviewing priorities and performance
Numeracy	<ul style="list-style-type: none"> Interprets numerical data to develop a broad plan, budget and strategy
Oral communication	<ul style="list-style-type: none"> Uses listening and questioning skills to confirm knowledge for requirements and articulates information clearly and concisely
Reading	<ul style="list-style-type: none"> Demonstrates knowledge and knowledge of legislative, organisational and technical material to determine job requirements
Writing	<ul style="list-style-type: none"> Develops a broad range of procedural material for a specific audience, using clear and detailed language to convey explicit information, requirements and recommendations
Teamwork	<ul style="list-style-type: none"> Identifies the requirements of important communication exchanges, selecting required channels, format, tone and content to suit purpose and audience
Problem solving	<ul style="list-style-type: none"> Identifies and applies complex principles, concepts, language and practices associated with the digital world
Self-management	<ul style="list-style-type: none"> Identifies and applies complex own legal rights and responsibilities and understands general legal principles applicable across work contexts Takes responsibility for high-impact decisions in complex situations

SKILL	DESCRIPTION
	involving many variables and constraints <ul style="list-style-type: none"><li data-bbox="443 342 1305 421">• Recognises complex anomalies and subtle deviations to normal expectations, focussing attention on critical issues and variables
Technology	<ul style="list-style-type: none"><li data-bbox="443 432 1380 526">• Uses digital technologies and systems safely and legally when gathering, storing, accessing and sharing information, with a growing awareness of the permanence and transparency of all activities

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Unit Mapping Information

Supersedes and is equivalent to ICTNWK519 Design an ICT security framework.

Links

Companion Volume Implementation Guide is found on VETNet -

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