



Australian Government

ICTNWK623 Manage ICT security

Release: 1

ICTNWK623 Manage ICT security

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 manage Information and Communications Technology (ICT) security including data security, enterprise continuity, incidents, networks and telecommunications security and system and application security.

It applies to individuals with managerial responsibility and advanced ICT expertise, working as security technical specialists, security analysts or security consultants.

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. Manage enterprise security parameters	1.1 Determine organisational security benchmarking requirements 1.2 Review security classification and data management policies and procedures 1.3 Determine and document effective enterprise continuity of operations (COOP) program and critical business continuity structure 1.4 Integrate and evaluate required risk management concepts 1.5 Evaluate and document security incidents and establish effective incident management program according to organisational requirements

ELEMENT	PERFORMANCE CRITERIA
2. Manage networks and telecommunications security	2.1 Develop and document network security and telecommunications program according to organisational requirements 2.2 Establish risk management communication protocols between network security, telecommunications team and required personnel 2.3 Determine and document integrated network security and telecommunications network performance
3. Implement and document enhancements	3.1 Implement required changes and improvement actions and evaluate effectiveness of enhancements 3.2 Produce and table documentation for audit tracking 3.3 Submit all documentation to required personnel and seek and respond to feedback 3.4 Obtain final task sign off from required personnel

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	• Demonstrates a sophisticated knowledge of principles, concepts, language and practices associated with the digital world and uses these to troubleshoot and understand the uses and potential of new technology • Monitors outcomes of decisions, considering results from a range of perspectives and identifying key concepts and principles that may be adaptable to future situations
Numeracy	• Uses mathematical formulas and calculations to estimate and plan project costs
Oral communication	• Articulates requirements and responsibilities clearly and distinctively, using industry standard technical language intended for audience and environment
Reading	• Identifies, analyses and evaluates complex text to determine regulatory and business requirements
Writing	• Develops a broad range of operational material, including recommendations and reports for a specific audience, using clear and detailed language to convey explicit information, requirements and recommendations

SKILL	DESCRIPTION
Teamwork	• Selects, implements and manipulates communications systems, processes and practices for maximum impact • Influences and fosters a collaborative culture, facilitating a sense of commitment and workplace cohesion • Understands diversity and seeks to integrate diversity into the work context, for managing change, making decisions and achieving shared outcomes
Planning and organising	• Operates from a broad conceptual plan, developing the operational detail in stages, regularly reviewing priorities and performance during implementation and identifying and addressing issues
Problem solving	• Uses a mix of intuitive and formal processes to identify key information and issues, evaluate alternative strategies, anticipate consequences and consider implementation issues and contingencies • Demonstrates use of intuition to identify general problem area when dealing with complex issues, switching to analytical processes to generate possible solutions, depending on differing operational contingencies, risk situations and environments
Self-management	• Develops and implements strategies so that organisational policies, procedures and regulatory requirements are being met • Monitors and reviews the organisation's policies, procedures and adherence to legislative requirements in order to implement and manage change
Technology	• Demonstrates high level awareness of the importance of knowledge, monitoring and controlling access to digitally stored and transmitted information

Unit Mapping Information

Supersedes and is equivalent to ICTNWK614 Manage ICT security.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for ICTNWK623 Manage ICT security

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- establish and manage an information and communications technology (ICT) system and application security engineering program for a medium size network on at least occasion.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- business and commercial issues related to the management of ICT security
- critical analysis in a management context
- principles and techniques to manage ICT security, including:
 - continuity of operations (COOP)
 - systems development life cycle (SDLC).

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- ICT business specifications
- ICT security assurance specifications
- management related scenarios
- a security environment, including industry standard threats present in the environment
- information on the security environment, including:
 - laws or legislation
 - existing organisational security policies
 - organisational expertise
 - use of risk analysis tools and methodologies currently used in industry.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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