



Australian Government

ICTICT503 Validate quality and completeness of system design specifications

Release: 1

ICTICT503 Validate quality and completeness of system design specifications

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 1.0.

Application

This unit describes the skills and knowledge required to check the system design specifications against outcomes and quality standards.

It applies to individuals working as system designers who are required to validate system design specifications to ensure that they meet the required organisational audit standards.

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

Unit Sector

General ICT

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. Determine audit criteria	1.1 Investigate the system or product for which the quality audit is being performed to understand its functionality 1.2 Determine the objectives to be achieved by the quality audit 1.3 Determine the scope of the quality audit 1.4 Develop a list of audit criteria and quality benchmarks 1.5 Develop a metric to classify the audit criteria 1.6 Determine the audit technique or methodology to be followed 1.7 Examine and detail the resources available to carry out the audit

ELEMENT	PERFORMANCE CRITERIA
	1.8 Document the objectives, scope, criteria, technique and resources in an audit plan
2. Audit aspects of the final system	2.1 Use the audit criteria to collect evidence about the functionality and quality of the final system, including documentation 2.2 Use a checklist to monitor audit progress 2.3 Document audit outcomes as the audit progresses
3. Review and confirm contract and specifications	3.1 Review system contract against audit outcomes 3.2 Compare system functionality against audit outcomes and system contract 3.3 Identify items of non-compliance where audit outcomes do not meet performance targets or fall short of contract requirements 3.4 Review system procedures for corrective action 3.5 Document items of non-compliance and proposed corrective action

Foundation Skills

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

Skill	Performance Criteria	Description
Reading	1.1-1.3, 1.7, 3.1-3.3	Interprets, analyses and evaluates text with complex terminology, diagrams, code, syntax, icons and symbols to: evaluate current system functionality, determine audit objectives, scope and criteria, and review audit findings
Writing	1.4, 1.5, 1.7, 1.8, 2.2, 2.3, 3.5	Uses plain English, appropriate grammatical structures and terminology, diagrams and flow charts, numerical information, and formatting and document structure relevant to the job role and organisation to develop an audit plan and document audit results
Oral Communication	1.1-1.3, 1.7, 2.1, 3.1, 3.4	Uses effective listening and open questioning techniques to obtain information and elicit the view and opinions of others

		• Uses appropriate questioning strategies, avoiding loaded or leading questions, when collecting evidence • Uses specific and complex system/product terminology when applicable, translating complex terms into plain English as required by the audience
Numeracy	1.2-1.5, 3.1-3.4	• Interprets and analyses numerical and financial information, and applies mathematical calculations and financial functions related to performance and financial metrics developed
Navigate the world of work	1.4	• Recognises and follows explicit and implicit protocols, and meets expectations associated with own role
Get the work done	1.1-1.7, 3.2-3.4	• Applies formal processes when planning more complex tasks, producing plans with logically sequenced steps and reflecting some awareness of resource constraints • Demonstrates a sophisticated understanding of principles, concepts, language and practices associated with the digital world and uses these to troubleshoot • Uses analytical processes in a variety of situations, setting goals, gathering relevant information and identifying and evaluating options against agreed criteria

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTICT503 Validate quality and completeness of system design specifications	ICAICT503A Validate quality and completeness of system design specifications	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for ICTICT503 Validate quality and completeness of system design specifications

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 1.0.

Performance Evidence

Evidence of the ability to:

- determine audit criteria
- conduct an audit
- review system procedures for non-compliance
- propose corrective actions.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- outline acceptance criteria
- translate detailed design principles and specification standards
- discuss fault tolerance technologies
- describe the process of quality audits
- discuss quality levels, both generally and as required by the organisation.

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the general information and communications technology (ICT) industry, and include access to:

- audit tools
- documentation guidelines
- relevant standards and benchmarks
- service level agreement (SLA)

- archive policies
- acceptance criteria
- ICT security specifications
- live system, including database, system files and designed interface
- technical specifications of system.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

Companion Volume implementation guides are found in VETNet -

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