



Australian Government

ICTNWK514 Model preferred system solutions

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 1.0.

Application

This unit describes the skills and knowledge required to fit a physical model into the design phase of the methodology.

It applies to individuals working as system designers who are required to model proposed solutions.

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. Review and confirm information requirements and existing models	1.1 Review information requirements and clarify areas that are not understood 1.2 Identify organisational standards for developing models, and check the model development method for consistency with organisational goals 1.3 Identify assumptions and incorporate into modelling process 1.4 Identify goals and resolve into tasks required to be performed to obtain goals 1.5 Define internal tasks needed to perform identified goals
2. Resolve conflicts and inconsistencies	2.1 Identify missed opportunities arising from previous and current model development

ELEMENT	PERFORMANCE CRITERIA
	2.2 Identify bottlenecks, overlooked functionalities and other issues, and resolve with client input as required
3. Build and test model	3.1 Develop model based on existing architecture 3.2 Document details of model, according to agreed project or organisational standards 3.3 Develop model according to project deliverables and acceptance criteria within determined timeframe and project constraints 3.4 Test model against the test plan 3.5 Document test data to ensure that test procedures validate performance of the model
4. Ensure that the model represents a workable solution	4.1 Ensure a consensus view of key information and communications technology (ICT) stakeholders is represented in model 4.2 Ensure model is checked by key ICT stakeholders to confirm common knowledge of the model and the proposed solution 4.3 Submit model to appropriate person for sign-off

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, 1.2, 3.2, 3.4, 3.5	Recognises and interprets technical material and organisational standards to determine job requirements
Writing	3.2, 3.5	Develops material for a specific audience, using clear and detailed language to convey explicit information, requirements and recommendations
Oral Communication	1.1, 2.2	Clearly articulates requirements, using relevant language suitable to diverse audiences, and employs listening and questioning techniques to confirm understanding
Navigate the	1.2	Takes full responsibility for identifying and considering relevant policies and requirements in

world of work		the development of preferred system solutions
Interact with others	4.2, 4.3	Actively identifies the requirements of important communication exchanges, selecting appropriate channels, format, tone and content to suit purpose and audience
Get the work done	1.3-1.5, 2.1, 2.2, 3.1-3.4, 4.1	- Demonstrates a sophisticated understanding of principles, concepts, language and practices associated with the digital world - Uses digital tools to access and organise complex data and analyse multiple sources of information for strategic purposes - Is acutely aware of the importance of understanding, monitoring and controlling access to digitally stored and transmitted information - Uses a combination of formal and logical planning processes and an increasingly intuitive understanding of context to set benchmarks and identify project scope when developing a model - Makes a range of critical decisions in relatively complex situations, taking a range of constraints into account - Recognises and addresses complex problems in systems models and may seek advice from relevant experts

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTNWK514 Model preferred system solutions	ICANWK514A Model preferred system solutions	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 ICTNWK514 Model preferred system solutions

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Performance Evidence

Evidence of the ability to:

- use two or more development tools
- develop specific areas of a system for further information or to confirm a software or hardware direction
- identify opportunities for expansion of the model
- test the model to a test plan.

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 the client business domain in relation to the organisational structure
- summarise current industry-accepted hardware and software products and standards
- explain modelling techniques and methodologies
- outline a range of development and test tools
- explain systems development methodologies.

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 network industry and include access to:

- acceptance criteria
- client requirements
- future organisational business processes
- organisational and process goals

- project budget
- project deliverables
- standards for model development
- technical specifications
- a test plan.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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