



Australian Government

ICTNWK548 Model preferred system solutions

Release: 1

ICTNWK548 Model preferred system solutions

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 fit a physical model into the design phase of the methodology.

It applies to individuals working as system designers or similar and 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 system requirements	1.1 Determine and clarify organisation's required system solutions with required personnel 1.2 Identify organisational standards and methods for developing models 1.3 Identify assumptions and incorporate into modelling process 1.4 Identify goals and resolve into task requirements 1.5 Determine and document task plan according to organisational policies and procedures
2. Resolve conflicts and inconsistencies	2.1 Identify missed opportunities arising from previous and current model development 2.2 Identify bottlenecks, overlooked functionalities and other required issues

ELEMENT	PERFORMANCE CRITERIA
	2.3 Determine and document resolution process according to organisational policies and procedures
3. Build and test model	3.1 Develop and document model plan and implement existing architecture 3.2 Submit documented plan to required personnel 3.3 Seek and respond to plan feedback from required personnel 3.4 Test model against test plan specifications 3.5 Document test data and confirm that test procedures validate performance of model
4. Finalise workable solution	4.1 Confirm consensus views of key information and communications technology (ICT) stakeholders is represented in model 4.2 Submit model to required ICT stakeholders for review and to confirm common knowledge of model and proposed solution 4.3 Submit model to required 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	DESCRIPTION
Learning	Uses a combination of formal and logical planning processes and an increasingly intuitive knowledge of context to set benchmarks and identify project scope when developing a model
Reading	Interprets technical material and organisational standards to determine job requirements
Writing	Develops material for a specific audience, using clear and detailed language to convey explicit information, requirements and recommendations
Teamwork	Identifies the requirements of important communication exchanges, selecting required channels, format, tone and content to suit purpose and audience
Problem solving	- Identifies and applies complex 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 - Makes a range of critical decisions in relatively complex situations, taking a range of constraints into account

SKILL	DESCRIPTION
	Identifies and addresses complex problems in systems models and may seek advice from required experts
Self-management	- Takes full responsibility for identifying and considering required policies and requirements in the development of preferred system solutions - Monitors and controls access to digitally stored and transmitted information

Unit Mapping Information

Supersedes and is equivalent to ICTNWK514 Model preferred system solutions.

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 ICTNWK548 Model preferred system solutions

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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:

- identify and resolve model conflicts and build a model using at least two development tools and test on at least one occasion.

In the course of the above, the candidate must:

- document finalised plan
- analyse organisation's required outcomes
- develop specific areas of a system for further information or to confirm a software or hardware direction
- identify opportunities for expansion of the model.

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:

- organisational business domain in relation to the organisational structure
- functions and features of:
 - development and test tools
 - industry standard hardware and software products and standards
- industry standard explain modelling techniques
- systems development methodologies.

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:

- acceptance criteria
- client requirements
- organisational and process goals
- project budget
- project deliverables
- standards for model development
- technical specifications
- test plans.

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

Links

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