



Australian Government

ICTPRG543 Develop integration blueprint for ICT systems

Release: 1

ICTPRG543 Develop integration blueprint for ICT systems

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 document and maintain details of technology, and architectural components, incorporated into the integration blueprint for an Information and Communications Technology (ICT) system.

It applies to individuals in senior development roles, required to integrate a series of components.

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

Unit Sector

Programming and software development

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 technical architecture documents	1.1 Review technical architecture documents against organisational requirements 1.2 Identify, evaluate and document technical considerations for alignment for technical best fit. 1.3 Update integration blueprint according to technical specifications and organisational requirements
2. Undertake compatibility tests	2.1 Assemble components and component technologies according to design specifications 2.2 Test components and confirm functionality against design specifications 2.3 Identify non-compliance issues against technical specifications

ELEMENT	PERFORMANCE CRITERIA
	2.4 Update integration blueprint with compatibility testing outcomes
3. Assess risk areas	3.1 Identify and document scope of modifications required from the compatibility test 3.2 Determine and document required modifications with suppliers according to compatibility test outcomes 3.3 Record modifications to risk area in integration blueprint
4. Assess readiness for stress testing	4.1 Stabilise platform according to technical requirements 4.2 Evaluate platform compliance with technical requirements 4.3 Update and document integration blueprint for stress testing

Foundation Skills

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

SKILL	DESCRIPTION
Reading	Interprets, and critically analyses, complex texts and applies required strategies, to construct meaning from complex texts when reviewing technical architecture documents
Writing	Prepares complex workplace documentation detailing processes and outcomes using required structure, layout and technical programming language
Teamwork	Participates in complex formal and informal conversations relevant to own role, initiating and taking the lead where required, in relation to negotiating with suppliers
Planning and organising	- Uses a combination of formal, logical planning processes, and an increasingly intuitive knowledge of context to identify relevant information and risks, and identify, and evaluate, alternative strategies and resources - Uses systematic, analytical processes in complex, non-routine situations, setting goals, gathering relevant information, and identifying and evaluating options against agreed criteria - Uses analytical processes to decide on a course of action, establishing the criteria for deciding between options
Problem solving	Uses nuanced knowledge of context to demonstrate knowledge of anomalies and subtle deviations to normal expectations, focusing attention and remedying problems as they arise
Self-management	Uses systematic processes, setting goals, gathering required information and identifying and evaluating options against agreed

SKILL	DESCRIPTION
	criteria
Technology	• Demonstrates a sophisticated knowledge of principles, concepts, language and practices associated with the digital world

Unit Mapping Information

Supersedes and is equivalent to ICTPRG516 Develop integration blueprint for ICT systems.

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 ICTPRG543 Develop integration blueprint for ICT systems

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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:

- review and develop technical architecture documentation and update integration blueprint on at least two occasions.

In the course of the above, the candidate must:

- undertake component compatibility testing
- assess and minimise risk of modifications
- stabilise platform, assess compliance with the technical requirements.

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:

- industry standard technology suppliers and components relating to developing integration blueprints
- industry development and design methodologies relevant to developing integration blueprints
- industry standard hardware and software products, features, and capabilities required for developing integration blueprints
- industry standard testing procedures for developing integration blueprints
- stress load testing principles relevant to developing integration blueprints.

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:

- design specifications
- a high-level, diagrammatic view of the main system components.

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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