



Australian Government

ICTTEN818 Align systems with product and technology strategy

Release: 1

ICTTEN818 Align systems with product and technology strategy

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 7.0.

Application

This unit describes the skills and knowledge required to develop technology roadmaps and interface management systems to align and integrate systems with a product and technology strategy.

It applies to individuals with technical and task management skills according to manufacturer's design specifications.

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

Unit Sector

Telecommunications Networks Engineering

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. Develop technology roadmap	1.1 Analyse market research information and determine customer needs within product and technology strategy 1.2 Evaluate enterprise and technology issues anticipated to affect system design, and translate them into system requirements 1.3 Evaluate program, product and technology needs that affect definition of the system lifecycle 1.4 Develop systems integration, verification and validation plans from design requirements 1.5 Develop and communicate key aspects on implementation of the technology roadmap to relevant personnel
2. Develop interface management of system	2.1 Determine system element interfaces and sources of complexity for interface management of the system

ELEMENT	PERFORMANCE CRITERIA
elements	2.2 Develop a process and required techniques to be adopted for interface management of system elements 2.3 Create a control process of system element interfaces of the management system 2.4 Liaise and arbitrate conflicts in the interface's definition process
3. Implement systems integration	3.1 Evaluate suitability of system integration, verification and validation plans for the product and technology strategy of the technology road map for a consumer product 3.2 Develop systems integration, verification and validation plans for complex systems, including method and timing for each activity 3.3 Manage system integration plan and diagnose complex faults 3.4 Document fault conditions, report to relevant person and follow up corrective actions 3.5 Prepare evidence for customer acceptance and certification of the system integration management plan for consumer product 3.6 Plan and manage a transition to operational activity of product

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Oral communication	Participates in verbal exchanges using highly developed listening, observational and questioning skills to understand others' perspectives, and clarify, explore and extend meaning
Reading	Organises, evaluates and interprets technical documentation, software and hardware manuals, specifications and required enterprise policy
Writing	Prepares workplace documentation, including diagrammatic material incorporating technical language, to communicate complex information clearly and effectively
Teamwork	- Selects and uses required conventions and protocols when communicating with stakeholders in a range of work contexts - Collaborates with others to achieve joint outcomes, taking the lead in identifying issues and facilitating agreement
Planning and organising	- Uses a combination of formal, logical planning processes and an understanding of context for complex, high-impact activities with strategic implications - Implements actions according to a predetermined plan, making

SKILL	DESCRIPTION
	- adjustments if necessary - Takes responsibility for high-impact decisions in complex situations involving many variables and constraints - Uses formal analytical and lateral thinking techniques to resolve software, hardware and logistics problems
Technology	Demonstrates a sophisticated understanding of principles, concepts, language and practices associated with the digital world and uses these to plan required systems

Unit Mapping Information

Supersedes and is equivalent to ICTTEN802 Manage alignment of systems with product and technology strategy.

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 ICTTEN818 Align systems with product and technology strategy

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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:

- align at least two systems with an organisation's product and technology strategy.

In the course of the above, the candidate must:

- plan implementation and testing of new system requirements, including system functionality and performance under load conditions
- manage interface elements of systems
- implement systems integration
- recognise potential causes of problems and service level impact
- analyse impact of integration of system changes on network
- prepare documentation for customer acceptance and certification of system integration.

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:

- required legislation, codes, company work practices, regulations and standards, workplace health and safety (WHS) requirements for scoped work
- technology issues for specified enterprises
- integration, verification and validation plans
- methods of preparing documentation for customer acceptance and certification of system integration
- functions and features of:
 - interface management systems
 - system element interfaces
 - system integration solutions
 - technology roadmaps

- workplace documentation
- specific workplace health and safety (WHS) requirements that impact activity in terms of safety of self and the general public
- system life cycles
- product and technology strategies.

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:

- a site where alignment of computer support systems with a product and technology strategy may be conducted
- software tools currently used in industry
- vendor products, specifications, equipment and enterprise policy required for the activity.

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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