



Australian Government

ICTICT613 Manage the use of development methodologies

Release: 1

ICTICT613 Manage the use of development methodologies

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 evaluate and determine required traditional and non-traditional systems development methodologies for use by a team.

The unit applies to those in senior Information and Communications Technology (ICT) management roles who are required to manage development teams.

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 appropriate development methodology	1.1 Determine, document and define subject activity 1.2 Define and document selection of development methodology criteria 1.3 Evaluate industry standard traditional and non-traditional system development methodologies 1.4 Determine system development methodology according to organisational requirements 1.5 Submit documentation to required personnel and seek and respond to feedback
2. Review development methodology	2.1 Review project plan and determine suitability to guide developmental processes and adjust according 2.2 Review identification and description of required task

ELEMENT	PERFORMANCE CRITERIA
	types and adjust according to development methodology 2.3 Review definition of appropriate control structures that need to be created during task type execution 2.4 Review identification of resources to support methodology selection
3. Direct development methodology use	3.1 Monitor application of required methodology to solve tasks 3.2 Monitor the project flow and effectiveness of use of methodology against project plan 3.3 Review documented opportunities for improvement, lessons learned and recommendations for future projects

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	• Uses specific and complex systems development terminology to liaise with project leader, review methodology and monitor the project
Reading	• Identifies, analyses and evaluates a range of online and hard copy organisational documentation and technical information containing complex, systems development specific terminology, syntax and diagrams and applies the information to the task
Writing	• Uses correct spelling, grammar and plain English together with a range of systems development specific terminology and computer-generated diagrams
Planning and organising	• Develops plans to manage relatively complex, non-routine tasks with an awareness of how they may contribute to longer term operational and strategic goals • Uses systematic analytical processes in complex, non-routine situations, setting goals, gathering relevant information and identifying and evaluating options against agreed criteria
Problem solving	• Identifies relevant information and ideas from a range of messages and oral and written exchanges, paying some attention to the meanings attached to the choice of form, channel and wording

Unit Mapping Information

Supersedes and is equivalent to ICTICT603 Manage the use of appropriate development methodologies.

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 ICTICT613 Manage the use of development methodologies

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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:

- evaluate and apply at least three different development methodologies and their application to a development project.

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 and organisational requirements
- life cycle maintenance of a live system, network or website applicable to managing the use of appropriate development methodologies
- technology requirements involved for a range of development methodologies relating to managing the use of appropriate development methodologies
- industry standard development methodologies applicable to managing the use of appropriate 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:

- design specifications and development methodologies
- organisational standards for documentation and version control
- detailed user requirements document, including model and scope
- a project plan.

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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