



**Australian Government**

# **ICTICT430 Apply software development methodologies**

**Release: 1**

# ICTICT430 Apply software 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 apply traditional and non-traditional systems development methodologies.

It applies to individuals in senior development roles who exercise discretion and judgement to create solutions using technical knowledge and analysis skills.

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 methodology	1.1 Determine and define subject activity 1.2 Define selection criteria for development methodology 1.3 Review and evaluate a range of traditional and non-traditional system development methodologies 1.4 Select system development methodology for required activity
2. Apply selected development methodology	2.1 Create initial project plan according to organisational standards 2.2 Identify applicable task types according to development methodology 2.3 Describe and articulate task types 2.4 Define applicable control structures to be created according to task type execution requirements

ELEMENT	PERFORMANCE CRITERIA
	2.5 Associate each task type with a set of input and output parameters
3. Adjust project according to methodology	3.1 Identify resources to support methodology selection 3.2 Solve tasks using selected methodology 3.3 Monitor project flow and record effectiveness against project plan 3.4 Review and document opportunities for improvement, lessons learned and recommendations for future projects 3.5 Submit results to required personnel for approval

## 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
Reading	<ul style="list-style-type: none"> <li>Identifies, analyses and evaluates a range of textual information containing complex systems development specific terminology, syntax and diagrams</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Uses applicable spelling and grammar and technical terminology to document project plans, recommendations, processes and reports in required format</li> </ul>
Planning and organising	<ul style="list-style-type: none"> <li>Applies formal processes when planning more complex tasks, producing plans with logically sequenced steps, reflecting an awareness of time and resource constraints and the needs of others</li> </ul>
Self-management	<ul style="list-style-type: none"> <li>Analyses project methodologies and identifies some key principles that may be applicable in future situations</li> </ul>
Technology	<ul style="list-style-type: none"> <li>Uses digital systems and tools to access, organise, analyse and display information applicable to the role</li> </ul>

## Unit Mapping Information

Supersedes and is equivalent to ICTICT403 Apply software development methodologies.

## Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>

