ICTICT403 Apply software development methodologies

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 1.0.

Application

This unit describes the skills and knowledge required to apply traditional and non-traditional systems development methodologies.

It applies to individuals in a senior development role who exercise discretion and judgement to create solutions using appropriate 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
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Determine and select appropriate methodology for a given activity	1.1 Determine and define subject activity 1.2 Define criteria for selection of development methodology 1.3 Review and evaluate a range of traditional and non-traditional system development methodologies 1.4 Select appropriate system development methodology to suit the activity
2. Apply the selected development methodology	2.1 Create an initial project plan to guide developmental processes 2.2 Identify appropriate task types according to development methodology

ELEMENT	PERFORMANCE CRITERIA
	2.3 Clearly describe and articulate task types
	2.4 Define appropriate control structures that need to be created during task type execution
	2.5 Associate each task type with a set of input and output parameters
3. Adjust project to suit appropriate methodology	3.1 Identify resources to support methodology selection
	3.2 Apply appropriate methodology to solve tasks
	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 appropriate person for approval

Foundation Skills

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

Skill	Performance Criteria	Description
Reading	1.1, 1.3, 3.1, 3.4	• Identifies, analyses and evaluates a range of textual information containing complex systems development specific terminology, syntax and diagrams, and applies the information to the task
Writing	2.1, 2.3, 3.3, 3.4	• Uses the correct spelling and grammar, and technical terminology to develop project plans, document recommendations, processes and reports in a format suitable to the audience
Oral Communication	1.1, 1.3, 2.3, 3.1-3.4	• Elicits and evaluates information using project related terminology and effective listening and questioning techniques • Uses plain English and, where necessary, project related terminology to liaise with clients, present information and obtain feedback • Uses specific and complex systems development terminology to liaise with co-workers
Get the work	1.1-1.4, 2.2, 2.4,	• Uses familiar digital systems and tools to access, organise, analyse and display information relevant to

done	2.5, 3.1-3.4	the role
		• 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
		• Reflects on the appropriateness and effectiveness of project methodologies and identifies some key principles that may be relevant in future situations

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTICT403 Apply software development methodologies	ICAICT403A Apply software development methodologies	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2