



Australian Government

ICTICT519 Develop detailed component specifications from project specifications

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 6.0.

Application

This unit describes the skills and knowledge required to analyse requirements of the project specifications in order to produce a set of high-level component specifications.

The unit applies to systems designers who are required to produce component specifications for programmers.

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. Prepare components	1.1 Document behaviour scenarios according to documentation standards 1.2 Identify and develop components according to project specifications 1.3 Prepare diagrams according to required standards
2. Prepare schema	2.1 Analyse and document component connectivity 2.2 Identify and incorporate data flow iteration 2.3 Prepare component action diagrams according to required standards
3. Prepare component model	3.1 Review and update functional requirements 3.2 Specify interface components and component relationships

ELEMENT	PERFORMANCE CRITERIA
	3.3 Prepare interaction diagrams according to standards
4. Iterate and review model	4.1 Conduct walk-through of current model and review functionality 4.2 Identify relationships and confirm integration of model 4.3 Review class service requirements 4.4 Prepare initial test criteria 4.5 Implement process for incremental testing

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"> Interprets and analyses text with complex terminology, diagrams, code, syntax, icons and symbols to evaluate current system functionality and technical requirements
Writing	<ul style="list-style-type: none"> Uses task related terminology and a formal document structure, choosing format and style according to document audience and organisational requirements Uses required vocabulary, terminology, labelling and naming conventions to develop diagrams using industry specific design tools
Numeracy	<ul style="list-style-type: none"> Interprets numerical information and applies basic mathematical calculations relating to time durations and budgetary information
Self-management	<ul style="list-style-type: none"> Identifies and follows explicit and implicit protocols and meets expectations associated with own role
Planning and organising	<ul style="list-style-type: none"> Takes responsibility for planning and organising own workload, identifying ways of sequencing and combining elements for efficiency
Problem solving	<ul style="list-style-type: none"> Responds intuitively to problems in familiar contexts requiring immediate attention
Technology	<ul style="list-style-type: none"> Recognises and identifies purpose, needs and limitations when selecting devices and applications for different tasks

Unit Mapping Information

Supersedes and is equivalent to ICTICT502 Develop detailed component specifications from project specifications and ICTPMG504 Prepare project specifications.

Links

Companion Volume Implementation Guide is found on VETNet -

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