

ICTPRG529 Apply testing techniques for software development

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 develop test strategies and implement tests to assure the reliability and quality of an application.

It applies to individuals who are responsible for test plan preparation, execution and maintenance, the reporting of tests and defect management in an application. These individuals include quality assurance analysts, test analysts, testers, system testers, software testers, test leads and developers.

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

Unit Sector

Programming and software development

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. Plan and design the test	1.1 Analyse and review software development specifications	
	1.2 Determine the test context, scope, standard and methodology	
	1.3 Determine the test types and tools	
	1.4 Determine test input data requirements	
	1.5 Design the test plan, and test cases, using various test design techniques	
2. Prepare the test environment	2.1 Analyse and review documents to prepare the test environment 2.2 Determine test environment requirements	

Approved Page 2 of 4

ELEMENT	PERFORMANCE CRITERIA
	2.3 Build and set up the test environment
3. Implement and execute the test	3.1 Build input data for testing3.2 Create the test suite or script from test cases3.3 Execute the test cases3.4 Create the test record to store test result
4. Manage defect and testing process	4.1 Evaluate and report the test results4.2 Track the defect and verify the fixes4.3 Maintain and archive test ware

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, 1.4, 2.1	Reviews, and evaluates, technical and business requirements
Writing	4.1	 Develops the technical reports and documentation appropriate for the target audience
Get the work done	1.2, 1.3, 1.5, 2.2, 2.3, 3.1, 3.2, 3.3, 3.4, 4.2, 4.3	 Takes responsibility for planning, sequencing and prioritising processes, and tasks, to achieve the required outcomes
		 Applies systematic and analytical problem-solving processes, to develop the appropriate security access control strategies
		 Uses a range of digital tools and sophisticated techniques to meet the desired outcomes

Unit Mapping Information

Code and title	Code and title previous	Comments	Equivalence status
current version	version		

Approved Page 3 of 4

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTPRG529 Apply testing techniques for software development	ICAPRG529A Apply testing techniques for software development	Updated to meet Standards for Training Packages	Equivalent unit

Links

 $\label{lem:companion} \begin{tabular}{ll} Companion Volume implementation guides are found in VETNet-$$ - $$ $$ https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e-9d6aff2 $$ $$ $$ $$ 9d6aff2 $$ $$$

Approved Page 4 of 4