



Australian Government

ICTPRG526 Maintain functionality of legacy code programs

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 maintain the functionality of legacy code programs.

It applies to individuals working in software development who are required to maintain legacy programs, updating them as required.

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
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Determine the functional changes required	1.1 Consult the user to determine, and document, the functional change required 1.2 Clarify the impact of changes with operational personnel
2. Review legacy language	2.1 Identify the basic structures of the legacy language 2.2 Review the data storage of the legacy language with regard to global variables, modularisation, cohesion and coupling 2.3 Review the basic algorithms of the legacy language
3. Identify and isolate the change	3.1 Review the technical documentation for the system, to determine which modules to change

ELEMENT	PERFORMANCE CRITERIA
	3.2 Review the source code to determine program logic and flow 3.3 Update the technical documentation to reflect the current state of the program
4. Determine the framework for change	4.1 Determine the change approach to be used to implement the change 4.2 Ascertain and detail the risks for each approach 4.3 Determine the personnel who will make the changes
5. Design the change	5.1 Develop the changes required, considering the impact of the changes on other parts of the system 5.2 Document the changes according to change-management standards
6. Code the change	6.1 Identify and obtain, the appropriate hardware and software for the change 6.2 Write the code according to programming standards 6.3 Compile and unit test the changes 6.4 Document the changes according to programming standards
7. Test the change	7.1 System test the changes and record the outcomes 7.2 Perform user acceptance testing and record the outcomes 7.3 Sign off the change request
8. Archive the system	8.1 Create a new version of software, according to configuration management standards 8.2 Archive the development system, including the source code, compilers and test data

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	2.1, 2.2, 2.3, 3.1, 3.2	Analyses, and interprets, technical information and defines specific features

Writing	3.3, 4.2, 5.2, 6.2, 6.4, 7.1, 7.2	Completes documentation accurately using industry-relevant terminology and the appropriate structure for the target audience
Interact with others	1.1, 1.2	Shares knowledge, information and experience openly, liaising with colleagues to achieve the best possible outcome
Get the work done	4.1, 4.2, 4.3, 5.1, 6.1, 6.3, 7.1, 7.2, 7.3, 8.1, 8.2	- Uses a formal change management process, identifying and evaluating several choices - Evaluates the effectiveness of decisions, in terms of how well they meet stated design specifications - Uses the features of digital tools to complete complex tasks

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTPRG526 Maintain functionality of legacy code programs	ICAPRG526A Maintain functionality of legacy code programs	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

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