



Australian Government

ICTPRG426 Prepare software development review

Release: 1

ICTPRG426 Prepare software development review

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 establish the standards associated with information technology and communications technology (ICT) technical requirements, in the context of quality assurance processes applicable to software development.

It applies to staff in the software development area who are required to ensure that the software development process incorporates quality considerations.

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. Review the software standards	1.1 Ensure that stakeholders have an understanding of organisational requirements 1.2 Document the software standards, according to project standards
2. Review the implementation standards	2.1 Assign the software standards to functions, according to a detailed technical plan 2.2 Take action to ensure that the communication and distribution strategies are clear, coherent, and meet the overall project plan requirements 2.3 Monitor and report on the implementation of standards against

ELEMENT	PERFORMANCE CRITERIA
	the acceptance criteria and detailed technical specifications
3. Review the software metrics and milestones	3.1 Define metrics related to the project milestones, timeframe, and cost considerations 3.2 Develop a schedule of quality reviews 3.3 Determine quality considerations by identifying in-process measurement points that relate to critical organisational requirements 3.4 Determine a method to benchmark and scale achievement against stated stakeholder requirements and cost considerations 3.5 Report metrics and milestones to stakeholders in a clear and coherent manner, and take action to ensure the written agreement

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, 1.2	Interprets and critically analyses, and applies the appropriate strategies, to construct meaning from complex texts relating to organisational requirements and project standards
Writing	1.2, 2.3, 3.5	Displays a knowledge of structure and layout, employing a broad vocabulary, grammatical structure and the conventions appropriate to text, when documenting standards and reporting on implementation, metrics, and milestones
Numeracy	3.1	Selects from, and applies, an expanding range of mathematical and problem-solving strategies, in the context of metrics and cost considerations
Interact with others	1.1	Recognises the importance of taking audience, purpose and contextual factors into account, when making decisions about what to communicate, with whom, why and how, in relation to ensuring stakeholder understanding of organisational requirements
Get the work done	1.2, 2.1, 2.2, 2.3, 3.2, 3.3, 3.4, 3.5	Sequences and schedules complex activities, monitors implementation, and manages relevant communication in relation to quality reviews

		• Uses systematic, analytical processes in complex, non-routine situations, setting goals, gathering relevant information and identifying, and evaluating, options against the agreed criteria • Uses analytical processes to decide on a course of action, establishing the criteria for deciding between options • Uses familiar digital systems and tools to access, organise, analyse and display information relevant to own role
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Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTPRG426 Prepare software development review	ICAPRG426A Prepare software development review	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>

Assessment Requirements for ICTPRG426 Prepare software development review

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Performance Evidence

Evidence of the ability to:

- review the software standards, including:
 - ensuring that stakeholders have an understanding of organisational requirements
 - documenting software standards according to project standards
- review the implementation standards, including:
 - assigning software standards to functions, according to the technical plan
 - ensuring that communication and distribution strategies are clear, coherent, and meet requirements
 - monitoring and reporting on the implementation of standards
- review software metrics and milestones, including:
 - defining metrics
 - developing a schedule of quality reviews
 - determining quality considerations by identifying the in-process measurement points
 - determining a method to benchmark and scale achievement
 - reporting the metrics and milestones to stakeholders
 - ensuring the written agreement is met.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- identify and explain current industry-accepted software configuration management processes
- identify and explain quality assurance practices and standards
- explain software metrics development

- identify and describe the client business domain.

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the programming and software development industry, and include access to the:

- technical specifications
- organisational standards, for documentation and version control
- project management process, and hierarchy
- organisational business processes
- software requirement specifications
- interface requirement specifications
- system requirements
- design specifications
- validated data
- project budget and timeframe.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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