



Australian Government

ICTPRG446 Prepare software development review

Release: 1

ICTPRG446 Prepare software development review

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 establish standards applicable to information technology and communications technology (ICT) technical requirements and quality assurance processes applicable to software development.

It applies to those who are in the software development area and are required to confirm 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 software and implementation standards	1.1 Obtain and clarify project plan, standards and organisational requirements with required personnel 1.2 Document software standards, according to project standards 1.3 Assign software standards to functions, according to detailed technical plan 1.4 Confirm communication and distribution strategies are clear, coherent and meet overall project plan requirements with required personnel 1.5 Monitor and report on implementation of standards against acceptance criteria and detailed technical specifications

ELEMENT	PERFORMANCE CRITERIA
2. Review software metrics and milestones	2.1 Define metrics related to project milestones, timeframe and cost considerations 2.2 Develop a schedule of quality reviews 2.3 Determine quality considerations by identifying in-process measurement points applicable to critical organisational requirements 2.4 Determine method to benchmark and scale achievement against stated requirements and cost considerations
3. Document and confirm with required personnel	3.1 Report metrics and milestones to required personnel 3.2 Obtain feedback from required personnel and amend accordingly 3.3 Confirm requirements are met with required personnel

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
Numeracy	Selects from and applies, an expanding range of mathematical and problem-solving techniques, in the context of metrics and cost considerations
Reading	Interprets and critically analyses and applies required strategies, to construct meaning from complex texts relating to organisational requirements and project standards
Writing	Develops documentation detailing software and implementation standards according to project standards using appropriate structure, layout and technical programming language
Planning and organising	Sequences and schedules complex activities, monitors implementation, and manages communication applicable to quality reviews
Problem solving	Uses systematic, analytical processes in predictable and unpredictable situations, setting goals and gathering required information
Self-management	Identifies importance of taking audience, purpose and contextual factors into account when making decisions about what to communicate, with whom, why and how
Technology	Uses a range of digital systems and tools to access, organise, analyse and display information applicable to own role

Unit Mapping Information

Supersedes and is equivalent to ICTPRG426 Prepare software development review.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for ICTPRG446 Prepare software development review

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- prepare at least one software development review.

In the course of the above, the candidate must:

- document software and implementation standards according to project standards
- apply and document at least three software metrics and at least three milestones.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- industry standard accepted software configuration management processes
- organisational and quality requirements applicable to software development review, including:
 - quality assurance practices and standards
 - quality review techniques and processes
 - benchmarking standards
 - organisational standards and guidelines
- software development life cycle
- acceptance criteria for software development testing
- software metrics development
- the client business domain.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- technical specifications and plans
- organisational standards and guidelines
- project management process, and hierarchy
- organisational business processes
- software and interface requirement specifications
- project budget and timeframe
- required hardware and digital devices.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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