



**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<br>1.2 Document software standards, according to project standards<br>1.3 Assign software standards to functions, according to detailed technical plan<br>1.4 Confirm communication and distribution strategies are clear, coherent and meet overall project plan requirements with required personnel<br>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       | <ul style="list-style-type: none"><li>2.1 Define metrics related to project milestones, timeframe and cost considerations</li><li>2.2 Develop a schedule of quality reviews</li><li>2.3 Determine quality considerations by identifying in-process measurement points applicable to critical organisational requirements</li><li>2.4 Determine method to benchmark and scale achievement against stated requirements and cost considerations</li></ul> |
| 3. Document and confirm with required personnel | <ul style="list-style-type: none"><li>3.1 Report metrics and milestones to required personnel</li><li>3.2 Obtain feedback from required personnel and amend accordingly</li><li>3.3 Confirm requirements are met with required personnel</li></ul>                                                                                                                                                                                                     |

## 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                | <ul style="list-style-type: none"><li>Selects from and applies, an expanding range of mathematical and problem-solving techniques, in the context of metrics and cost considerations</li></ul>                               |
| Reading                 | <ul style="list-style-type: none"><li>Interprets and critically analyses and applies required strategies, to construct meaning from complex texts relating to organisational requirements and project standards</li></ul>    |
| Writing                 | <ul style="list-style-type: none"><li>Develops documentation detailing software and implementation standards according to project standards using appropriate structure, layout and technical programming language</li></ul> |
| Planning and organising | <ul style="list-style-type: none"><li>Sequences and schedules complex activities, monitors implementation, and manages communication applicable to quality reviews</li></ul>                                                 |
| Problem solving         | <ul style="list-style-type: none"><li>Uses systematic, analytical processes in predictable and unpredictable situations, setting goals and gathering required information</li></ul>                                          |
| Self-management         | <ul style="list-style-type: none"><li>Identifies importance of taking audience, purpose and contextual factors into account when making decisions about what to communicate, with whom, why and how</li></ul>                |
| Technology              | <ul style="list-style-type: none"><li>Uses a range of digital systems and tools to access, organise, analyse and display information applicable to own role</li></ul>                                                        |

## 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>