



Australian Government

ICTPRG502 Manage a project using software management tools

Release: 1

ICTPRG502 Manage a project using software management tools

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 use software management tools, to manage a project from initiation to completion.

It applies to individuals who work in a team, or who individually develop systems to specification, using software management tools to manage delivery within time and budget parameters.

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. Select the software management tools	1.1 Determine the software development methodology to be used 1.2 Determine the project management software to be used 1.3 Determine the source-control system to manage the source code and to handle conflicts 1.4 Determine the collaboration software to be used
2. Use the software management tools	2.1 Create a project plan, according to the software requirement specifications 2.2 Define the source-control procedures 2.3 Create a collaboration environment

ELEMENT	PERFORMANCE CRITERIA
3. Monitor the use of software management tools	3.1 Monitor, and adjust, the project plan to maintain progress according to the project plan 3.2 Ensure that the code is correctly entered into the source-control system 3.3 Monitor the collaboration environment, and resolve issues where required

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	Interprets and critically analyses, and applies, the appropriate strategies to construct meaning from complex texts
Writing	2.1, 3.1, 3.2	Displays a knowledge of structure and layout, employing a broad vocabulary, grammatical structure, and the conventions appropriate to text
Numeracy	2.1	Selects from, and applies, an expanding range of mathematical and problem-solving strategies
Interact with others	2.3, 3.3	- Actively identifies the requirements of important communication exchanges, selecting appropriate channels, format, tone and content to suit the purpose and audience, and monitoring the impact when creating and resolving issues - Collaborates with others to achieve joint outcomes, playing an active role in facilitating effective group interaction, influencing direction and, on occasion, taking a leadership role
Get the work done	All	- Sequences and schedules complex activities, monitors implementation and manages relevant communication, in a collaborative project environment - 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 and

		seeking input, and advice from others, before taking action when necessary • Uses a range of digitally-based technology and applications to access and filter data, extract, organise, integrate, and share relevant information, in increasingly effective ways
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Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTPRG502 Manage a project using software management tools	ICAPRG502A Manage a project using software management tools	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 ICTPRG502 Manage a project using software management tools

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Performance Evidence

Evidence of the ability to:

- use software management tools to manage the development of a system to specification
- select the software development methodology, project management software, source-control system, and collaboration software
- create, monitor and adjust a project plan, according to the requirement specifications
- define source-control procedures, and ensure the correct entries into the system
- create, monitor, and resolve issues in a collaborative environment.

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:

- outline the basic principles of project management
- describe the key features of the software development life cycle (SDLC)
- describe the importance of software specifications
- identify the methods and importance of version control.

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 internet
- project management software
- source-control software

- specific tools and licences, depending on the particular platform.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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