



Australian Government

ICTPRG530 Manage projects using software management tools

Release: 1

ICTPRG530 Manage projects using software management tools

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

It applies to software developers, 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 software management tools	1.1 Determine required software development methodology according to system development project requirements 1.2 Determine required project management software according to project requirements 1.3 Determine source-control system required to manage code and handle source-control system conflict 1.4 Determine and document required collaboration software according to organisational policies and procedures
2. Use software management tools	2.1 Determine and document project plan according to software specifications and project requirements 2.2 Define required source-control procedures according to software specifications and project requirements

ELEMENT	PERFORMANCE CRITERIA
	2.3 Create collaborative environment according to software specifications and project requirements
3. Monitor use of software management tools	3.1 Monitor and maintain project plan and document progress according to organisational policies and procedures 3.2 Check accurate code entry according to source-control system 3.3 Monitor collaboration environment and resolve identified issues according to organisational policies and procedures

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

SKILL	DESCRIPTION
Numeracy	Selects from, and applies, an expanding range of mathematical and problem-solving strategies
Reading	Interprets and critically analyses, and applies, the required strategies to construct meaning from complex texts
Writing	Displays a knowledge of structure and layout, employing a broad vocabulary, grammatical structure, and the conventions required to text
Teamwork	- Actively identifies the requirements of important communication exchanges, selecting required 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
Planning and organising	- 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
Problem solving	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
Technology	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

Unit Mapping Information

Supersedes and is equivalent to ICTPRG502 Manage a project using software management tools.

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 ICTPRG530 Manage projects using software management tools

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 6.0.

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:

- research and select at least one software management tool to manage a system development project.

In the course of the above, the candidate must:

- create, monitor and adjust a project plan, according to the required specifications
- define source-control procedures, and check that the correct entries are input into the system
- create, monitor, and resolve issues in a collaborative environment.

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:

- basic principles of project management
- key features of the software development life cycle (SDLC)
- importance of software specifications when applied managing projects using software management tools
- methods and tools used for version control.

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:

- the internet
- source-control software

- industry standard tools and licences that may be used for managing projects using software management tools.

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

Links

Companion Volume Implementation Guide is found on VETNet -

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