



Australian Government

ICTPRG538 Create mashups

Release: 1

ICTPRG538 Create mashups

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 combine content from more than one source into new integrated applications and create custom mashups.

It applies to those responsible for software developers who develop web applications using the enabling technologies to create mashup applications.

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. Prepare to create mashups	1.1 Identify mashup content according to organisational requirements 1.2 Determine sources of content required for mashup 1.3 Determine and document mashup interface requirements 1.4 Submit documentation to required personnel and seek and respond to feedback
2. Remix elements from multiple websites to create new mashups	2.1 Analyse Web 2.0 concept and web as a platform according to mashup requirements 2.2 Evaluate and select APIs according to mashup requirements 2.3 Determine programming language according to APIs requirements

ELEMENT	PERFORMANCE CRITERIA
	2.4 Create mashups of several services according to task requirements
3. Use mashup tools	3.1 Evaluate and select required tools according to task requirements 3.2 Create mashups according to task requirements 3.3 Align created mashups to organisational requirements 3.4 Obtain finalised task sign off from required personnel

Foundation Skills

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

SKILL	DESCRIPTION
Oral communication	Articulates requirements and responsibilities distinctively, using effective communication techniques and industry standard technical language intended for audience and environment
Reading	Critically analyses documentation from a variety of sources and records, and consolidates the information to determine requirements
Writing	Writes and edits computer code, and technical data using correct syntax and logical flow
Planning and organising	Operates from a broad conceptual plan, developing the operational detail in stages, regularly reviewing priorities and performance during implementation, and identifying and addressing issues
Problem solving	- Systematically gathers and analyses all relevant information and evaluates options, in order to make decisions about APIs - Identifies technical or conceptual issues, and applies analytical processes, to resolve issues - Uses a range of digital tools and sophisticated techniques, to meet the desired outcomes
Self-management	Uses systematic processes, setting goals, gathering required information and identifying and evaluating options against agreed criteria
Technology	Demonstrates sophisticated knowledge of principles, concepts, language and practices associated with the digital world

Unit Mapping Information

Supersedes and is equivalent to ICTPRG508 Create mashups.

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 ICTPRG538 Create mashups

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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:

- create at least two mashups.

In the course of the above, the candidate must:

- document requirements and process.

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:

- hypertext markup language (HTML), cascading style sheet (CSS) and JavaScript applicable to creating mashups
- server-side scripting language required to create mashups
- outline extensible markup language (XML), web services, Asynchronous JavaScript (AJAX), and metadata
- web design and development and how it applies to creating mashups.

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
- required mashup tools and API providers
- required Web 2.0 tools
- an integrated development environment (IDE)
- organisational deliverables and technical expectations for mashup creation.

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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