



Australian Government

ICTPRG435 Write scripts for software applications

Release: 1

ICTPRG435 Write scripts for software applications

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 plan, design and build scripts, using a scripting language to construct highly interactive and automated software applications.

It applies to those who build and integrate interactive applications or websites for internal or public sites. They may work as application developers, application-support personnel, programmers specialising in a scripting language, web application programmers, or web developers.

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. Specify software application requirements	1.1 Identify required software application outcomes 1.2 Discuss expectations of final software application with required personnel
2. Determine script requirements	2.1 Identify main characteristics of scripting languages 2.2 Identify integrated development environment (IDE) 2.3 Identify protocols and object model used in chosen scripting language
3. Design and build scripts	3.1 Create pseudo code and describe logic required in script 3.2 Review pseudo code and amend missing logic and errors 3.3 Translate pseudo code into scripts, incorporating use of

	basic language elements 3.4 Incorporate item manipulation using chosen scripting language
4. Finalise scripts	4.1 Create internal documentation in script according to organisational procedures 4.2 Review, debug and document script according to organisational procedures 4.3 Finalise, save and confirm work 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
Reading	• Applies applicable strategies and constructs meaning from requirements and technical documentation • Interprets and critically analyses, complex scripting language texts and pseudo code when reviewing and amends missing logic, error and bugs
Oral Communication	• Uses listening and questioning techniques to confirm information and requirements using industry language for intended audience
Writing	• Selects vocabulary, grammatical structures and conventions applicable to text when documenting script and using pseudocode
Planning and organising	• Considers purpose, needs and limitations when selecting a framework and IDE in script building
Problem solving	• Uses systematic, analytical processes, identifying and evaluating scripting language texts and pseudo code

Unit Mapping Information

Supersedes and is equivalent to ICTPRG407 Write script for software applications.

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 ICTPRG435 Write scripts for software applications

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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:

- design, write and integrate at least one script into software solutions to accommodate specified application requirements.

In the course of the above, the candidate must:

- test and debug scripts
- use required framework and an integrated development environment (IDE) in developing scripts.

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:

- software development platforms
- organisational and legislative requirements applicable to writing script for software applications
- software development life cycle methodology and process
- integrated development environment (IDE)
- scripting languages
- processes and techniques related to development of small-size applications.

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:

- a brief for development of a small-sized application runtime environment

- the development environment
- scripting language.

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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