# ICTPRG407 Write script for software applications

**Release: 1**

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

It applies to individuals who build and integrate interactive applications, or websites for internal, and 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 |
|---------|----------------------|
| *Elements describe the essential outcomes.* | *Performance criteria describe the performance needed to demonstrate achievement of the element.* |
| 1. Determine the requirements of building the script | 1.1 Identify the main characteristics of scripting languages<br>1.2 Identify and use a framework, and integrated development environment (IDE), to build the script using the chosen scripting language<br>1.3 Identify the protocols and the object model used in the chosen scripting language |
| 2. Design the script | 2.1 Create pseudo code to describe the logic needed in the script<br>2.2 Review pseudo code for missing logic and error |

| ELEMENT | PERFORMANCE CRITERIA |
|---------|----------------------|
| 3. Write the script | 3.1 Translate pseudo code into scripts, incorporating the use of basic language elements |
| | 3.2 Create internal documentation in the script |
| | 3.3 Incorporate item manipulation using the chosen scripting language |
| | 3.4 Review, debug, and document the script |

## 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 | 1.1-1.3, 2.2, 3.4 | • Applies the appropriate strategies to construct meaning from the requirements and technical documentation<br>• Interprets and critically analyses, complex scripting language texts, and pseudo code when reviewing for missing logic, error and bugs |
| Writing | 2.1, 3.2, 3.4 | • Selects the vocabulary, grammatical structures and conventions appropriate to text, when documenting script and using pseudo code |
| Get the work done | 1.1-1.3, 2.1, 2.2, 3.1-3.4 | • Uses systematic, analytical processes, identifying and evaluating scripting language texts, and pseudo code, against the agreed criteria when reviewing for missing logic, error and bugs<br>• Considers the purpose, needs and limitations when selecting a framework and IDE to build script<br>• Recognises and uses a wide range of relevant language and symbols, when using pseudo code and scripting language, and when creating documentation |

# Unit Mapping Information

| Code and title current version | Code and title previous version | Comments | Equivalence status |
|---|---|---|---|
| ICTPRG407 Write script for software applications | ICAPRG407A Write script for software applications | Updated to meet Standards for Training Packages | Equivalent unit |

# Links

Companion Volume implementation guides are found in VETNet - https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2