



**Australian Government**

**Assessment Requirements for ICTPRG523  
Apply advanced programming skills in  
another language**

**Release: 1**

# Assessment Requirements for ICTPRG523 Apply advanced programming skills in another language

## Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 1.0.

## Performance Evidence

Evidence of the ability to:

- design and write code using dynamic data structures
- write code using hashing techniques, sorting algorithms and advanced searching techniques
- use language features that enable inter-process communication and responses to operating system signals
- use third-party libraries in the construction of an application, including referencing third-party documentation
- design and build an application program according to a design document
- test and debug code and resolve errors of a syntactical, logical and design origin
- produce documentation according to guidelines and standards.

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:

- identify and describe a range of programming languages
- identify and describe languages for a GUI environment
- summarise the techniques for developing large-scale applications
- outline the procedures for programming with complex data structures
- describe the procedures for using a third-party supplied library, for standard programming features.

## 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 software development environment
- technical documentation.

Assessors must satisfy NVR/AQTF assessor requirements.

## Links

Companion Volume implementation guides are found in VETNet -

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