Assessment Requirements for ICTPRG547 Apply advanced programming skills in another language

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 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:

- design and build at least one advanced application program according to a design document
- code at least one sorting algorithm
- apply at least two different techniques to optimise code.

In the course of the above, the candidate must:

- 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
- evaluate and document debugging test processes and outcomes
- test and debug code and resolve errors of a syntactical, logical and design origin.

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:

- programming languages applicable to applying advanced programming skills in another language
- languages required for a GUI environment
- developing large-scale applications applicable to applying advanced programming skills in another language
- procedures for programming with complex data structures

- procedures for using a third-party supplied library for standard programming features.

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:

- software development environment required to apply advanced programming skills in another language
- technical and design documentation
- organisational deliverables
- integrated development environment (IDE).

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