



Australian Government

Assessment Requirements for ICTPRG430

Apply introductory object-oriented language skills

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 4.0.

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements and performance criteria of this unit; including evidence of the ability to:

- Select and use three language data types, three operators and three expressions
- Use correct language syntax for one sequence, one selection and two iteration constructs
- Use a modular approach to implement the logic for one object operation
- Implement a class that uses arrays of primitive data types twice.
- Read from and write to one text file
- Implement two classes that each contain four instance variables
- Implement one class that contains two options for object construction
- Implement one class that uses user-defined object aggregation
- Implement polymorphism once for code extensibility
- Use one debugging tool
- Apply code and documentation conventions that specify at least 3 aspects, according to organisational requirements
- Perform and document two unit test cases
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Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements and performance criteria of this unit. This includes:

- Processes and techniques related to object-oriented programming, including the concepts and language
- Syntax language rules, data types structures
- Primitive instance variables
- Class variables
- Small-size application development processes
- Polymorphism and inheritance

- Debugging and testing approaches and techniques
- Constructors
- Object aggregation
- Sequence, selection and iteration constructs
- Organisational documentation
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Assessment Conditions

Skills must be demonstrated in a workplace or simulated environment where conditions are typical of those in an ICT working environment or workplace. This includes:

- Integrated development environment
- Applications relevant to software development
- Organisational code and documentation conventions
- User requirements
- Individual user to consult

Assessors of this unit must satisfy the assessor requirements in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guides are available from VETNet -

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