# Assessment Requirements for ICTPRG440 Apply introductory programming skills in different languages

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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:

- create, maintain and update at least one program using coding activities, basic language syntax and layout.

In the course of the above, the candidate must:

- write code using at least two data structures and at least two standard algorithms according to organisational guidelines
- debug at least one program written above using debugging tools provided by integrated development environment (IDE)
- document activities undertaken in at least one program developed above according to organisational guidelines and coding standards
- test program created above and confirm specifications are met
- record results for tests performed above, according to organisational guidelines.

## 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:

- language syntax rules
- organisational procedures and guidelines that may be used to apply introductory programming skills in different languages
- coding techniques and standards
- documentation techniques that may be used to document programming activities
- application development processes, debugging methodologies, testing techniques and basic data structures guidelines that may be used to apply introductory programming skills in different languages.

## 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:

- integrated development environment (IDE) for determined language
- specific tools and licences, depending on particular platform and language.

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