



**Australian Government**

# **ICTICT318 Validate test cases and develop proof of concepts**

**Release: 1**

# ICTICT318 Validate test cases and develop proof of concepts

## Modification History

| Release   | Comments                                                                                                                                                                                |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Release 1 | This version first released with the Information and Communications Technology Training Package Version 8.0.<br><br>Newly created unit of competency to address in-demand skills needs. |

## Application

This unit describes the skills and knowledge required to validate the feasibility of information and communications technology (ICT) concepts in a variety of workplace contexts. It includes identifying concept technologies, evaluating factors that contribute to concepts, and applying strategies to mitigate risks associated with those factors.

The unit applies to individuals who may work under direct supervision as technical support staff, and concept developers, who support the development and validation of concepts across ICT environments.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

## Unit Sector

General ICT

## Elements and Performance Criteria

| ELEMENT                                          | PERFORMANCE CRITERIA                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                    |
| 1. Prepare to develop proof of ICT concepts      | 1.1 Confirm work brief and tasks according to organisational policies and procedures<br>1.2 Review costs, timelines, operational capacities and resources in work brief<br>1.3 Develop ICT concepts according to work brief<br>1.4 Review test cases and document any limitations according to work brief |
| 2. Evaluate and                                  | 2.1 Research ICT components and technologies according to work                                                                                                                                                                                                                                            |

| ELEMENT                                                                | PERFORMANCE CRITERIA                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| recommend technologies                                                 | <p>brief</p> <p>2.2 Evaluate suitable technologies required in ICT concept according to work brief</p> <p>2.3 Report on advantages and disadvantages of required technologies</p> <p>2.4 Analyse research findings and develop technologies recommendations according to work brief</p>                                                                                           |
| 3. Evaluate contributing factors and risks associated with ICT concept | <p>3.1 Research environmental and organisational factors that impact concepts</p> <p>3.2 Conduct market and competitor analysis according to work brief</p> <p>3.3 Analyse concept risks</p> <p>3.4 Create risk register according to work brief</p> <p>3.5 Identify and document risk mitigation strategies</p>                                                                  |
| 4. Validate test cases for proof of concepts                           | <p>4.1 Use technological recommendations and analysis findings to validate a test case according to work brief</p> <p>4.2 Confirm test case is valid</p> <p>4.3 Seek and implement feedback on test case validation from required personnel</p> <p>4.4 Document and securely store validation output in required location according to organisational policies and procedures</p> |

## Foundation Skills

*This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.*

| Skill                   | Description                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Oral communication      | <ul style="list-style-type: none"> <li>Presents recommendations and issues according to organisational requirements and using standard conventions and protocols and language appropriate to audience</li> </ul> |
| Reading                 | <ul style="list-style-type: none"> <li>Interprets a variety of technical information and texts</li> </ul>                                                                                                        |
| Writing                 | <ul style="list-style-type: none"> <li>Creates workplace documentation using required technical language</li> </ul>                                                                                              |
| Planning and organising | <ul style="list-style-type: none"> <li>Uses systematic processes for information gathering and evaluates options against agreed criteria</li> </ul>                                                              |
| Problem solving         | <ul style="list-style-type: none"> <li>Applies principles of logical thinking to identify organisational issues and select appropriate solutions</li> </ul>                                                      |

## Unit Mapping Information

No equivalent unit. Newly created unit.

## Links

Companion Volume Implementation Guide is found on VETNet - -

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

# Assessment Requirements for ICTICT318 Validate test cases and develop proof of concepts

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## 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:

- develop at least one proof of concept to validate an information and communications technology (ICT) concept, where the work must include:
  - the validation of at least one test case
  - at least two recommended technologies to actualise the above proof of concept.

In the course of the above, the candidate must:

- report on and present ICT-specific information, recommendations and ideas
- securely store documents in required locations
- apply required organisational policies and procedures.

## 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:

- methods to validate test cases
- functions and features of proof of concept documentation and briefs, including:
  - costs
  - timelines
  - operational capacities
  - resources
- features, advantages and disadvantages of concept technologies and components
- common types of factors that impact proof of concept briefs, including:
  - external environmental factors

- internal organisational factors
- methods to identify and analyse contributing factors and risks, including:
  - market analyses
  - competitor analyses
  - risk analyses
- industry-recognised methods to mitigate risks, including developing risk registers
- methods to validate test cases
- organisational policies and procedures, and legislative requirements relating to work tasks.

## 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:

- required resources to validate and develop proof of concepts
- opportunities for interaction with others
- work brief and organisational policies and procedures required to demonstrate the performance evidence.

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

## Links

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