



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **ICAICT417A Identify, evaluate and apply current industry-specific technologies to meet industry standards**

Release: 1

## ICAICT417A Identify, evaluate and apply current industry-specific technologies to meet industry standards

### Modification History

| Release   | Comments  |
|-----------|---|
| Release 1 | This Unit first released with <i>ICAI1 Information and Communications Technology Training Package version 1.0</i> |

### Unit Descriptor

This unit describes the performance outcomes, skills and knowledge required to identify, evaluate and apply industry-specific technologies to meet identified industry standards.

### Application of the Unit

This unit applies to individuals engaged in ongoing review and research in order to identify, evaluate and apply industry technologies or techniques to improve aspects of the organisation's activities. The unit provides evidence of the application of industry-enabling technologies.

The unit emphasises the importance of constantly reviewing and demonstrating work processes, skills and techniques to ensure that the quality of the entire business process is maintained at the highest level possible through the appropriate application of industry-specific technologies.

### Licensing/Regulatory Information

Users should confirm licensing, legislative, regulatory, or certification requirements with the relevant federal, state or territory authority.

### Pre-Requisites

Not applicable.

### Employability Skills Information

This unit contains employability skills.

## Elements and Performance Criteria Pre-Content

| Element  | Performance Criteria  |
|--|---|
| <i>Elements describe the essential outcomes of a unit of competency.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.</i> |

## Elements and Performance Criteria

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| 1. Prepare to identify and evaluate industry-specific technologies                 | 1.1 Identify technologies specific to an <b>industry sector</b><br>1.2 Acquire <b>industry-specific technologies</b><br>1.3 Identify, classify and use industry-specific technologies for the benefit of the organisation  |
| 2. Apply industry-specific technology to assist in solving organisational problems | 2.1 Conduct testing of industry-specific technologies<br>2.2 Apply features and functions of industry-specific technologies to provide a suitable solution to an identified problem<br>2.3 Demonstrate depth of knowledge of enabling technologies to an accepted industry standard<br>2.4 Access and use <b>sources of information</b> relating to the industry-specific technologies |
| 3. Review and evaluate industry-specific technology performance                    | 3.1 Review and evaluate industry-specific technologies for performance, usability and benefit to the organisation<br>3.2 Determine <b>environmental considerations</b> involved with using the technologies<br>3.3 Seek <b>feedback</b> from users where appropriate   |

## Required Skills and Knowledge

*This section describes the skills and knowledge required for this unit.*

### Required skills

- communication skills to:
  - communicate with peers and supervisors
  - seek assistance and expert advice
  - seek feedback from users
- literacy skills to interpret technical documentation, equipment manuals and specifications
- research skills to locate appropriate sources of information regarding industry-specific technologies
- safety awareness skills to work systematically with required attention to detail without injury to self or others, or damage to goods or equipment
- technical skills to:
  - identify features of the industry-specific technologies
  - test and evaluate the industry-specific technologies
  - use the industry-specific technologies.

### Required knowledge

- awareness of current technology trends, directions in IT and the major industry technology standards used in the area
- vendor product directions
- current industry hardware and software products, and their general features, capabilities and application
- information-gathering techniques.

## Evidence Guide

*The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.*

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|---|--|
| <b>Overview of assessment</b>   |  |
| <b>Critical aspects for assessment and evidence required to demonstrate competency in this unit</b> | Evidence of the ability to: <ul style="list-style-type: none"><li>• identify new and emerging industry-specific technologies</li><li>• apply and evaluate features and functions of identified industry-specific technologies to an industry standard.</li></ul>   |
| <b>Context of and specific resources for assessment</b>   | Assessment must ensure access to: <ul style="list-style-type: none"><li>• site where industry-specific technologies may be used</li><li>• industry-specific technologies currently used in industry</li><li>• documents detailing OHS standards, environmental guidelines and organisational requirements.</li></ul> Where applicable, physical resources should include equipment modified for people with special needs.   |
| <b>Method of assessment</b>   | A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate for this unit: <ul style="list-style-type: none"><li>• verbal or written questioning to assess candidate's knowledge of features and functions of industry-specific technologies</li><li>• direct observation of candidate using industry-specific technologies</li><li>• simulation of uses of industry-specific technologies.</li></ul>  |
| <b>Guidance information for assessment</b>  | Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended, where appropriate.<br><br>Assessment processes and techniques must be culturally appropriate, and suitable to the communication skill level, language, literacy and numeracy capacity of the candidate and the work being performed.<br><br>Indigenous people and other people from a non-English speaking background may need additional support.<br><br>In cases where practical assessment is used it should be combined with targeted questioning to assess required knowledge. |

## Range Statement

*The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.*

|   |   |
|---|---|
| <b><i>Industry sector</i></b> may include:                | <ul style="list-style-type: none"> <li>• business services or information worker</li> <li>• information and communications technology</li> <li>• telecommunication.</li> </ul>  |
| <b><i>Industry-specific technologies</i></b> may include: | <ul style="list-style-type: none"> <li>• vendor specific:             <ul style="list-style-type: none"> <li>• hardware</li> <li>• integrated services</li> <li>• internet access</li> <li>• mobile communication devices</li> <li>• networks</li> <li>• peripherals</li> <li>• software.</li> </ul> </li> </ul>  |
| <b><i>Sources of information</i></b> may include:         | <ul style="list-style-type: none"> <li>• appliances software and technical connections guidance and other outputs supplied by vendors and manufacturers</li> <li>• documents</li> <li>• test pages</li> <li>• vendor and manufacturer guidance regarding requisite depth of knowledge of industry-specific technologies</li> <li>• web pages.</li> </ul>  |
| <b><i>Environmental considerations</i></b> may include:   | <ul style="list-style-type: none"> <li>• correct disposal by an authorised body of redundant hardware:             <ul style="list-style-type: none"> <li>• circuit boards</li> <li>• hard drives</li> <li>• motherboards</li> </ul> </li> <li>• recycling</li> <li>• safe disposal of packaging:             <ul style="list-style-type: none"> <li>• cardboard</li> <li>• paper</li> <li>• plastic</li> <li>• polystyrene.</li> </ul> </li> </ul> |
| <b><i>Feedback</i></b> may include:                       | <ul style="list-style-type: none"> <li>• competency skill level</li> <li>• industry-validated demonstration of competency through certification</li> <li>• interviews</li> </ul>  |

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|--|---|
|  | <ul style="list-style-type: none"><li>• meetings.</li></ul> |
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## **Unit Sector(s)**

General ICT