



Australian Government

Department of Education, Employment and Workplace Relations

ICAICT609A Lead the evaluation and implementation of current industry-specific technologies

Release: 1

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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 lead the identification, management and implementation of specific industry technologies to meet identified industry standards.

Application of the Unit

This unit applies to individuals engaged in ongoing review and research to lead the identification, management and evaluation of the implementation of industry technologies or techniques to improve aspects of the organisation's activities. The unit provides evidence of the application of industry-enabling 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

1. Lead the implementation of industry-specific technologies	<p>1.1 Identify technologies specific to an <i>industry sector</i></p> <p>1.2 Determine the relevance of <i>industry-specific technologies</i> to the organisational requirements</p> <p>1.3 Plan the implementation of industry-specific technologies where appropriate, for the benefit of the organisation</p>
2. Direct the application of industry-specific technologies to assist in solving specific organisational problems	<p>2.1 Lead the management of the testing of industry-specific technology</p> <p>2.2 Direct the implementation of specific features and functions of industry-specific technologies to provide a suitable solution to an identified problem</p> <p>2.3 Demonstrate depth of knowledge of enabling technologies to an accepted industry standard</p> <p>2.4 Access and use <i>sources of information</i> relating to the industry-specific technologies</p>
3. Lead the review, analysis and evaluation of the industry-specific technology performance	<p>3.1 Lead the analysis of the implementation of the industry-specific technologies for performance and usability</p> <p>3.2 Analyse, review and evaluate the benefits to the organisation</p> <p>3.3 Determine <i>environmental considerations</i> involved with using the technology</p> <p>3.4 Seek <i>feedback</i> from users, where appropriate</p>

Required Skills and Knowledge

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

Required skills

- communication skills to communicate at a high level with peers and supervisors, such as technical personnel for expert advice
- high-level research skills to locate appropriate sources of information regarding industry-specific technology
- literacy skills to:
 - interpret technical documentation, equipment manuals and specifications
 - write detailed reports
- 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:
 - analyse, test and evaluate the industry-specific technologies
 - identify features of the industry-specific technologies
 - lead the application of industry-specific technologies.

Required knowledge

- high-level knowledge of:
 - vendor product directions
 - current technology trends, directions in IT and the major industry technology standards used in the specified area
 - information-gathering techniques
- in-depth knowledge of current industry hardware and software products, including their general features, capabilities and application.

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.

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

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.

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

	<ul style="list-style-type: none">• meetings.
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Unit Sector(s)

General ICT