



Australian Government

Department of Education, Employment and Workplace Relations

ICAICT514A Identify and manage the implementation of current industry-specific technologies

Release: 1

ICAICT514A Identify and manage the implementation of current industry-specific technologies

Modification History

Release	Comments
Release 1	This Unit first released with <i>ICA11 Information and Communications Technology Training Package version 1.0</i>

Unit Descriptor

This unit describes the performance outcomes, skills and knowledge required to identify and manage the implementation of specific industry technologies to meet identified industry standards.

This unit covers the skills required to demonstrate and constantly review work processes that ensure that the quality of the business process is maintained at the highest level possible through the appropriate application of industry-specific technologies.

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

Application of the Unit

This unit applies to individuals engaged in ongoing review and research in order to identify, manage and evaluate 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

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of endorsement but users should confirm 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. Analyse and plan the implementation of industry-specific technologies	1.1 Identify technologies specific to an industry sector 1.2 Acquire industry-specific technologies and analyse their relevance to organisational requirements 1.3 Plan the implementation of industry-specific technologies, where appropriate, for the benefit of the organisation
2. Manage the application of industry-specific technology to assist in solving specific organisational problems	2.1 Manage the testing of industry-specific technology 2.2 Manage the implementation of specific features and functions of industry-specific technology to provide a suitable solution to an identified problem 2.3 Demonstrate depth of knowledge of enabling technologies to an accepted industry standard 2.4 Access and use sources of information relating to the industry-specific technology
3. Review, analyse and evaluate industry-specific technology performance	3.1 Analyse implementation of the industry-specific technology for performance and usability 3.2 Review and evaluate the benefits to the organisation 3.3 Determine environmental considerations involved with using the technology 3.4 Seek feedback 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 at a high level with peers and supervisors
 - seek assistance and expert advice
 - seek feedback from users
- literacy skills to interpret technical documentation, equipment manuals and specifications
- high-level research skills to locate appropriate sources of information regarding industry-specific technology
- 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:
 - apply the industry-specific technology
 - identify features of the industry-specific technology
 - test and evaluate the industry-specific technology.

Required knowledge

- high-level knowledge of:
 - vendor-product directions
 - current technology trends, directions in IT and specifically of 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	Evidence of the ability to: • manage the implementation of new and emerging industry-specific technologies • analyse and critically evaluate features and functions of identified industry-specific technologies to an industry standard.
Context of and specific resources for assessment	Assessment must ensure access to: • site where industry-specific technologies may be used • industry-specific technologies currently used in industry • documents detailing OHS standards, environmental guidelines and organisational requirements. Where applicable, physical resources should include equipment modified for people with special needs.
Method of assessment	A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate for this unit: • verbal or written questioning to assess candidate's knowledge of features and functions of industry-specific technologies • direct observation of candidate managing the implementation of industry-specific technologies • simulation of industry-specific uses of the industry-specific technologies.
Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended, where appropriate. 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. Indigenous people and other people from a non-English speaking background may need additional support. 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.

Industry sector may include:	• business services or information worker • information and communication technology • telecommunication.
Industry-specific technologies may include:	• vendor specific: • hardware • integrated services • internet access • mobile communication devices • networks • peripherals • software.
Sources of information may include:	• 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.
Environmental considerations may include:	• correct disposal by an authorised body of redundant hardware: • circuit boards • hard drives • motherboards • recycling • safe packaging disposal of: • cardboard • paper • plastic • polystyrene.
Feedback may include:	• competency skill level • industry validated demonstration of competency through certification • interviews

	• meetings.
--	---

Unit Sector(s)

General ICT