



Australian Government

ICTCLD301 Evaluate characteristics of cloud computing solutions and services

Release: 1

ICTCLD301 Evaluate characteristics of cloud computing solutions and services

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 6.0.

Application

This unit describes the skills and knowledge required to undertake a basic review and analysis of cloud computing delivery and deployment models to support the needs of a business.

The unit applies to individuals engaged in the basic review of a cloud computing solutions for a business or enterprise.

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

Unit Sector

Cloud computing

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 review cloud technology solutions and services	1.1 Identify data handling organisational policies and procedures required for cloud computing solutions and services 1.2 Identify cloud computing solutions and services according to organisational needs 1.3 Identify and confirm business and industry technology terminology, characteristics and concepts 1.4 Identify organisational roles affected by implementation of cloud services and solutions and their impact on cloud computing solutions and services 1.5 Identify requirements to transferring to cloud computing solutions and services according to organisational policies and procedures

2. Review cloud delivery and deployment models	2.1 Identify and review capability and characteristics of different cloud service platforms and delivery models against business requirements 2.2 Research and identify emerging cloud deployment models 2.3 Discuss differences, advantages and disadvantages between cloud cost models and different hybrid deployment models 2.4 Identify the most suitable cloud service and delivery platform according to organisational needs
3. Finalise evaluation	3.1 Identify and document benefits of adopting best cloud solutions and services according to business needs 3.2 Identify and document challenges of adopting cloud solutions and services according to business needs 3.3 Finalise cloud solutions and services evaluation and seek and respond to evaluation feedback according to organisational policies and procedures 3.4 Communicate outcomes of evaluation to required personnel 3.5 Save and lodge evaluation document to required personnel

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
Reading	Analyses and consolidates information and data from a range of sources against defined criteria and requirements, and checks for accuracy and completeness
Writing	Records required information and prepares documentation outlining findings and analysis succinctly
Oral communications	Obtains and responds to information and feedback from required personnel using succinct verbal language
Learning	Identifies ideas for other applications and considers them in current contexts
Planning and organising	Plans and implements routine tasks and workload, making limited decisions on sequencing, timing and collaboration, and seeks assistance in setting priorities
Self-management skills	Makes low-impact decisions within familiar situations, based on a range of predefined or routine solutions and evaluates effectiveness of outcome

Unit Mapping Information

Supersedes and is equivalent to ICTNWK306 Evaluate characteristics of cloud computing solutions and services.

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 ICTCLD301 Evaluate characteristics of cloud computing solutions and services

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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, and to:

- determine at least one suitable cloud computing solution and associated services according to business needs.

In the course of the above, the candidate must:

- collate information on the business' need for cloud technology
- articulate total cost of ownership for cloud computing solution as it applies to business needs
- document finalised evaluation findings.

Knowledge Evidence

The candidate must demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit. This includes knowledge of:

- technology trends in cloud computing
- industry technology standards used in cloud computing solutions and services
- functions and features of cloud computing solutions and services vendor products
- principles and functions of cloud computing solutions, models and technologies, including:
 - Infrastructure as a Service (IaaS)
 - Platforms as a Service (PaaS)
 - Software as a Service (SaaS)
- industry standard hardware and software products, their general features, capabilities and application
- different cost models and cloud economic theories as they apply to different cloud services, and benefits to each
- uses and different features of private, hybrid and public cloud deployment models.

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:

- organisational and industry standards, guidelines and legislation required to inform business cloud computing requirements
- information and data sources
- industry standard information and telecommunications equipment required to capture and store data
- a variety of cloud solutions and services and their specifications

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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