



Australian Government

ICTICT450 Identify and use applications for a distributed ledger

Release: 1

ICTICT450 Identify and use applications for a distributed ledger

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 administer and manage blockchain applications for a distributed ledger. It involves the identification of blockchain applications suitable to specified business needs, and the implementation and deployment of the application at various stages throughout the business model.

It applies to those who perform a range of administrative and project management tasks and assess and implement new technologies to business models in Information and Communications Technology (ICT) and related industries.

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. Determine distributed ledger technology (DLT) application suitability	1.1 Identify purpose and benefit of industry standard DLT applications according to business needs 1.2 Identify business processes and transaction types suitable for DLT application 1.3 Identify business use-case according to business needs 1.4 Determine consensus mechanism and protocols according to business needs 1.5 Identify required DLT service provider platform according to business needs

2. Set up DLT application	2.1 Document DLT requirements and submit to required personnel 2.2 Initiate account according to vendor specifications and business needs 2.3 Generate required accounts according to vendor specifications 2.4 Create and save genesis block 2.5 Initiate required instance according to vendor specifications 2.6 Test DLT solution against business needs 2.7 Document and confirm DLT meets business needs
3. Use distributed ledger application	3.1 Initiate required transaction from application 3.2 Confirm transaction completion with required personnel 3.3 Document back-end technical transaction process 3.4 Obtain final task sign off from 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
Learning	• Modifies behaviour following exposure to new information
Reading	• Interprets information from relevant sources to determine organisational impacts relating to data ethics legislation
Writing	• Prepares documentation outlining technical specifications and process according to specified requirements
Planning and organising	• Takes responsibility for planning own workload and prioritising tasks for required outcomes
Self-management	• Implements standard procedures and makes decisions for routine tasks • Uses formal decision-making processes for more complex situations

Unit Mapping Information

No equivalent unit. New 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 ICTICT450 Identify and use applications for a distributed ledger

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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:

- set up and use at least one distributed ledger application to an organisational process.

In the course of the above, the candidate must:

- research business model and determine required distributed ledger application
- comply with blockchain best practices and guidelines.

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:

- business models, processes and transaction types
- consensus mechanisms and protocols
- underlying distributed ledger technology functions and uses including:
 - blockchain principles, best practices and guidelines
 - cryptography
 - immutable database rules
 - transactional components
- industry standard functions and uses of distributed ledger applications, service provider platforms and their general capabilities
- industry standard uses for applications
- documentation techniques applicable to documenting DLT requirements
- research procedures and techniques used for determining DLT requirements.

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:

- industry standard software and hardware to access internet and web delivered information
- vendor specifications
- platforms providing distributed ledger applications
- blockchain best practice guidelines.

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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