



Australian Government

TLIX0011X Establish blockchain in supply chains

Release: 1

TLIX0011X Establish blockchain in supply chains

Modification History

Release 1. This is the first release of this unit of competency in the TLI Transport and Logistics Training Package.

Application

This unit of competency describes the skills and knowledge required to establish blockchain in supply chains. It includes preparing for blockchain, developing a strategy for blockchain, implementing and managing blockchain, managing change associated with blockchain and reviewing and reporting on blockchain.

Blockchain is a decentralised, shared, immutable database of transactions that uses consensus mechanisms to operate. Blockchain networks can be public with anyone able to join and see any transaction that happens. A private (permissioned) blockchain, that restricts who can access the network, is required when working with supply chains. Participants in the supply chain using blockchain will determine what data is seen by whom.

The digitisation of transactions and data using blockchain enables supply chain organisations to implement and monitor their ethical practices, contract management, traceability, transparency, authenticity and compliance programs.

The unit is applicable to those with management or team leadership responsibilities within a supply chain.

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

Pre-requisite Unit

Not applicable.

Competency Field

X - Logistics

Unit Sector

Cross sector

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

- | | |
|--|---|
| 1 Prepare for blockchain | 1.1 Collaborations, relationships and stakeholders in the supply chain are mapped |
| | 1.2 Applicable legislative requirements, industry standards and codes of practice for blockchain are identified |
| | 1.3 Level of responsibility and authority for establishing blockchain is confirmed |
| 2 Develop a strategy for blockchain | 2.1 Blockchain strategy, including Key Performance Indicators (KPIs), is developed |
| | 2.2 Policies, procedures and processes, including data distribution and customer assistance protocols, are developed to support the blockchain strategy |
| | 2.3 Supply chain stakeholder communication plan is determined |
| | 2.4 Compliance protocols are developed, in accordance with legislative requirements and industry standards, to support the blockchain strategy |
| | 2.5 Risks associated with blockchain are ascertained and risk controls are developed, in accordance with risk management procedures and industry standards |
| 3 Implement and manage blockchain | 3.1 Blockchain is established, on completion of trialling activities, in the supply chain |
| | 3.2 Policies, procedures and processes are applied, in accordance with the blockchain strategy |
| | 3.3 Risk controls and compliance protocols are defined and implemented to support blockchain use |
| | 3.4 Support processes for blockchain users are implemented and managed, in accordance with the blockchain strategy and industry standards |
| | 3.5 Onboarding and access control mechanisms for blockchain use are managed, in accordance with the blockchain strategy and industry standards |
| 4 Manage blockchain | 4.1 Blockchain requirements and timelines are |

change	communicated to supply chain stakeholders
	4.2 Training, coaching, mentoring and networking opportunities for supply chain stakeholders are managed, in accordance with the blockchain strategy
	4.3 Supply chain stakeholder concerns and complaints are documented and addressed, in accordance with blockchain procedures
5 Review and report on blockchain	5.1 Blockchain strategy and KPIs are reviewed, in consultation with supply chain stakeholders
	5.2 Report on blockchain implementation is prepared and presented to approved supply chain stakeholders
	5.3 Continuous improvement actions to support blockchain use in the supply chain are documented

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This is a new unit. There is no equivalent unit.

Links

Companion Volume Implementation Guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>