
TLIX9986X 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.

Prerequisite Unit

Not applicable.

Competency Field

X - Logistics

Unit Sector

Cross sector

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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 change

- 4.1** Blockchain requirements and timelines are 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

Assessment Requirements for TLIX9986X Establish blockchain in supply chains

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria on at least one occasion and includes

- addressing and documenting supply chain stakeholder blockchain concerns and complaints
- communicating and working with supply chain stakeholders
- confirming the level of responsibility and authority for establishing blockchain in the supply chain
- defining and implementing blockchain compliance protocols
- developing and applying policies, procedures and processes including customer assistance and data distribution protocols
- documenting blockchain continuous improvement recommendations
- establishing blockchain strategy and Key Performance Indicators (KPIs)
- identifying applicable legislative requirements, industry standards and codes of practice
- identifying risks related to blockchain and implementing risk controls
- managing blockchain onboarding and access control mechanisms
- mapping supply chain collaborations, relationships and stakeholders
- preparing and presenting reports on blockchain
- reviewing blockchain strategy and KPIs outcomes
- undertaking change management activities including training, mentoring, coaching and networking
- working with supply chain stakeholders to establish blockchain.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria and includes knowledge of

- blockchain strategy development and implementation including Key Performance Indicators (KPIs)
- capabilities of blockchain
- change management principles including opportunities and methods for training, coaching, mentoring and networking
- communication methods and tools

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- complaint resolution processes
 - compliance protocols
 - continuous improvement principles
 - establishment requirement for blockchain
 - industry and government initiatives to support blockchain
 - legislative and regulatory obligations, industry standards and codes of practice
 - onboarding and access control mechanisms for blockchain users
 - policies, procedures and processes that support blockchain use in supply chains
 - protocols for blockchain data distribution
 - review and report requirements
 - risk controls and risk management procedures
 - stakeholder and relationship mapping
 - support processes for blockchain stakeholders
 - types of stakeholders in supply chains
 - use of technology in supply chain operations

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so. Where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to a range of

- exercises, case studies and/or other simulations
- materials, tools and equipment used in industry
- documentation including organisational policies and procedures, industry standards, regulations, codes of practice, operational manuals and equipment specifications.

Links

XXX Training Package Companion Volume Implementation Guide at: [sector webpage link here]