10747NAT Advanced Diploma of Applied Blockchain

Version 1, September 2018

VERSION HISTORY

Version 1	September 2018	Initial accreditation

1. Period of accreditation	11 September 2018 – 10 September 2023 (5 years)

Section B: Course information

1. Nomenclature	
1.1 Name of the qualification	Advanced Diploma of Applied Blockchain
1.2 Nominal duration of the course	Supervised: 880 – 920 hours (subject to electives selected) Unsupervised: 900 hours Volume of learning: 1,780 - 1,820 (subject to electives selected)
2. Vocational or educational outcomes	
2.1 Purpose of the course	**Vocational Outcomes** The intended purpose of this course is to provide participants with a range of knowledge, skills and, generic and specific competencies to support them in gaining employment in applying blockchain technologies within an existing or new organisation. The course outcomes for graduates will vary greatly depending on existing qualifications and experience. In general, this course is intended to provide participants with the following **vocational outcomes**: • Strategic or Management roles within an organisation researching and crafting new Business Models that incorporate blockchain technologies to create value, efficiencies and new opportunities • Strategic or Management roles within an organisation researching and modelling disruptive business systems around the application of blockchain technologies • Strategic or Management roles within an organisation charged with Transitioning organisational systems to new and emerging blockchain technologies Some potential employment opportunities involving the delivery of the Advanced Diploma of Applied Blockchain course in Australia may be possible where the graduate also holds a Vocational Education teaching qualification such as the Certificate IV in Training and Assessment or equivalent.

	Graduates with existing Qualifications or Experience In addition to the above outcomes, a graduate who already has a Tertiary Level degree and then also completes the Advanced Diploma of Applied Blockchain may find employment in the area of applying blockchain technologies in a wider range of capacities including the following: • Consulting in the area of disruptive business modeling and value creation incorporating blockchain technologies • Consulting in the area of applying blockchain technologies • Consulting in the area of transitioning organisational systems to blockchain technologies **Specialist functions and Skills** Additionally, graduates of the course will be able to perform the following functions and specialist tasks: • Generate disruptive business models through applying blockchain technologies using the best practice 'Business Model Canvas' • Apply 'Blue Ocean Strategy' filters to strategic planning and disruptive business model generation • Activate blockchain networks through the application of Smart Contracts • Build strategic networks that facilitate interoperability of the blockchain networks with legacy systems and off-chain systems, as well as data oracles • Effectively transition organisational systems and networks to a blockchain ecosystem • Lead governance and stewardship of a blockchain ecosystem • Recruit for blockchain projects through the use of DAPPs • Evaluate blockchain network performance and alignment to the planned business model. **Note: The term "blockchain technologies" or "blockchain networks" are used throughout this Course Document to encompass:* • Distributed Ledger Technologies • Distributed ledger networks and platforms
4. Course outcomes	
4.1 Qualification level	The course descriptor was developed to align with the characteristics defined by the AQF Level 6 Advanced Diploma as follows; The graduate will demonstrate the application of integrated technical and theoretical concepts in a broad range of industry contexts to undertake advanced skilled or paraprofessional work in the field of applied blockchain, and as a pathway for further learning. Graduates will have technical and theoretical knowledge and concepts with

	depth in the area of applied blockchain. Graduates will have, a. cognitive and communication skills to identify, analyse, synthesise and act on information from a range of sources b. cognitive, technical and communication skills to analyse, plan, design and evaluate approaches to unpredictable problems and/or management requirements c. specialist technical and creative skills to express ideas and perspectives in the area of applied blockchain d. communication skills to transfer knowledge and specialised skills to others and demonstrate understanding of knowledge Graduates will demonstrate the application of skills and knowledge; a. with depth in the area of applied blockchain b. to analyse, diagnose, design and execute judgements across a broad range of technical and management functions c. to demonstrate a command of wide-ranging, highly specialized, creative or conceptual skills d. to generate ideas through analysis of information and concepts at an abstract level e. to demonstrate accountability for personal outputs f. to demonstrate accountability for group outcomes **Volume of Learning Statement** The above skills and knowledge are consistent with the AQF Qualification Type Descriptor for an Advanced Diploma. The volume of learning is defined in the AQF as follows: *"The volume of learning is a dimension of the complexity of a qualification. It is used with the level criteria and qualification type descriptor to determine the depth and breadth of the learning outcomes of a qualification. The volume of learning identifies the notional duration of all activities required for the achievement of the learning outcomes specified for a particular AQF qualification type. "* The volume of learning allocated in the design of this qualification considers the following: a. that blockchain is an emerging technology and the application of blockchain technology is disruptive by nature b. the purpose of the qualification is for deepening or broadening of knowledge and skills specifically in an emerging area of innovation c. the qualification leads to professional outcomes in the field of applied blockchain d. requires detailed workplace or simulated case studies and projects e. the structure of the course has a focus on applied blockchain and consists of a total of 8 enterprise units of competence It is anticipated that learners could complete the qualification (8 units) within 18 months (1 ½ years) of full time study. The AQF defines a full time study

	load as 1,200 hours in a given year. The course is structured as follows: Nominal Hours: 880 – 920 hours (subject to elective selection) Unsupervised hours: 900 hours (subject to learner experience) Total volume of learning 1,780 – 1,820 hours (subject to elective selection)
4.2 Foundation skills	Foundation skills applicable to the outcomes of this course are identified in the units of competency.
4.3 Recognition given to the course	Successful completion of this course will attribute graduates with the *additional title*: **"Associate Fellow of the Australian Digital Commerce Association"** and all rights associated with this title.
4.4 Licensing/ regulatory requirements	Not applicable

5. Course rules

5.1 Course structure

1. The structure of the course and rules for completion.

To achieve sufficient depth and breadth of learning to receive a competent outcome for the Advanced Diploma of Applied Blockchain, the learner **must complete eight units comprising;**

- 6 Core
- 2 Electives

There are no pre-requisites for this qualification

CORE UNITS

Sequence	Unit code	Unit title	Nominal hours
1	BLKEBF001	Establish a blockchain framework for decentralised peer to peer consensus and innovation.	120
2	BLKDBM002	Develop a blockchain business model	120
3	BLKFRS003	Develop a blockchain network functional requirements specification	120
4	BLKSMC004	Create trust and activate a blockchain with smart contracts	80
5	BLKOBN005	Develop a framework for operating a blockchain network	120
6	BLKSNW006	Develop a strategic network framework for interoperability	120
		TOTAL	**680**
ELECTIVE UNITS There are no sequence requirements for electives 2 to be selected from the list below			
	BLKTBO007	Prepare the organisation for transitioning operations to a blockchain network	120
	BLKERE008	Develop a blockchain governance model for stewardship	120
	BLKRFB009	Lead recruitment strategy for blockchain projects	80
	BLKPER010	Analyse performance of a business model deployed on a blockchain	120
		TOTAL - Subject to electives selected	**200 - 240**

2. Unsupervised activities that the learner will need to engage in to complete the course

Successful completion of this course will require learners to engage in unsupervised activities including:

- Independent research and learning
- Projects and assignments

Non supervised activity will involve the student in:

- Interaction with stakeholders in preparation for developing a Blockchain Business Model
- Interaction with stakeholders in preparation for developing a Functional Requirements Specification
- Interaction with stakeholders in the preparation of Smart Contract specification
- Compilation of relevant resource documentation to support:
  - a viable Business Model
  - a Functional Requirements specification
  - a Smart Contract specifications for projects
- Interaction with stakeholders in developing a Strategic Networks Framework
- Interaction with stakeholders to determine the relevant Regulatory bodies that impact the identified Blockchain Business Model
- Personal study, additional reading and research associated with understanding the background of various centralised and decentralised cultures, learning styles and international contexts associated with both the practical and theoretical aspects of the Course
- Research and familiarisation with internet and other resources related to the field of Applied Blockchain
- Research and familiarisation with Business Canvas Model methodology and tools, and their application
- Research and familiarisation with Blue Ocean Strategy methodologies and processes
- Research and familiarisation with Blockchain recruitment DAPPs
- Personal research and study associated with chosen English for specific purpose specialisation

The time required to undertake these activities will vary between students based on their experience. On average, the non-supervised activities listed above will equate to 900 hours.

3 Volume of Learning

The volume of learning identifies the notional duration of all activities required for the achievement of learning outcomes.

Volume of learning is calculated as follows:

Nominal (supervised) hours + Unsupervised hours = Volume of learning

(880 – 920) + 900 = 1780 – 1820 (subject to electives selected)

The nominal (supervised) hours of 880 – 920 (subject to electives selected) represent the anticipated hours of structured and supervised learning required

	to sufficiently address the content of each unit. These include hours allocated for learning and assessment activities that are delivered face to face, online and/or via structured distance education. The 900 unsupervised hours represent activities that contribute to achieving the course outcomes that are not supervised by an RTO trainer or assessor. They include activities such as work experience, research, case studies, interaction with industry, private study and/or assignment work. **3. Early exit points** No early exit points apply **4. Statement of Attainment** A Statement of Attainment will be issued for any unit of competency successfully completed if the full Course is not completed
5.2 Entry requirements	**1. Essential entry requirements** Entrants to the Advanced Diploma of Applied Blockchain must: • be over 18years of age at the time of commencement • have successfully completed a year 12 certificate or equivalent • Students without vocational experience at a management level will be required to attend an interview prior to enrolment to determine their prospects for success including o Understanding of blockchain and distributed ledger technologies o Understanding basic planning methods o Understanding of the Internet of Things **2. Recommended entry requirements** It is recommended entrants have: • Vocational experience at a management level including the development of business plans. • High level language, literacy and numeracy levels – sufficient to interpret complex documents and prepare written reports **3. Limitations to entry** No limitations to entry apply

6. Assessment

6.1 Assessment strategy

Assessment Methods and Resources

Refer to the Assessment Requirements of the individual units.

The following provides an overview of the Assessment Methods used to gather evidence and how they are to be applied. Refer to the Assessment Requirements of the individual units.

Method	Description
Written Questions	▪ Structured questions that refer to actual or simulated case studies ▪ Applicable to the assessment of knowledge evidence
Practical Research Tasks	▪ Research and analysis of actual or simulated case studies ▪ Reports on research findings ▪ Portfolio of indexed and referenced research data and references associated with the Research Task ▪ Applicable to the assessment of performance evidence ▪ Applicable to the assessment of knowledge evidence
Projects	• Structured projects that will include design and development of models and / or, specifications • Structured reports that require investigation, evaluation, recommendations and actions • A Portfolio that may include indexed and referenced research analysis and supporting documents, evaluations and reports (e.g. collection of plans, models, specifications, research findings and reports) • Presentations (e.g. presenting models, specifications and reports) ▪ Applicable to the assessment of performance evidence • Applicable to the assessment of knowledge evidence
Presentations	• Observation of Presentations (e.g. presentation of plans, models, specifications, research findings and reports) • A Portfolio including presentations and notes for evidence ▪ Applicable to the assessment of performance evidence • Applicable to the assessment of knowledge evidence

Quizzes	▪ Applicable to assess understanding of blockchain language and terminology specific to blockchain ecosystems ▪ Applicable to the assessment of knowledge evidence
Third-party evidence	▪ Additional evidence provided to assessors to support a candidate's claim of competence. ▪ This could include reports from supervisors, colleagues and/or clients, testimonials from employers, work diaries, evidence of training.

Holistic Assessment

The following units can be assessed through a holistic assessment.

BLKDBM002	Develop a blockchain business model
BLKFRS003	Develop a blockchain network functional requirements specifications
BLKSMC004	Create trust and activate a blockchain with smart contracts
BLKOBN005	Develop a framework for operating a blockchain network
BLKSNW006	Develop a strategic network framework for interoperability

Recognition of Prior Learning

RTO's must ensure that recognition of prior learning (RPL) is offered to all learners.

Limitations

There are no explicit limitations of the course

Conducting Assessment

To ensure assessors consistently and effectively make judgements about participant's achievements and outcomes, assessors are required to mark to benchmark assessment guides (Marking Guides) for each unit. The benchmarks reflect the Performance and Knowledge evidence required to demonstrate competency for each unit.

All assessment must be undertaken by assessors who meet the requirements stated to apply under the *Standards for Registered Training Organisations* (RTOs) 2015.

6.2 Assessor competencies	All assessment must be undertaken by assessors who meet the requirements stated to apply under the *Standards for Registered Training Organisations* (RTOs) 2015.

7. Delivery	
7.1 Delivery modes	This course is designed to be conducted with blended learning with both theoretical components and practical components. Appropriate modes of delivery **may include, but not be limited to**: • face-to-face classes, seminars or workshops • distance learning • online learning **Note:** Where specially designed workplace based classes are arranged for the purpose of facilitating the training or assessment related to this Course, the classroom in which the training is to be conducted is to be resourced with all the materials and equipment that would normally be found in real teaching environments. **Contextualisation of units for a variety of learner groups** Contextualisation enables the units of competency to be adjusted to reflect the immediate context in which the units are to be used. RTOs and other users of the Advanced Diploma of Applied Blockchain may need to contextualise units of competency to: • reflect industry sector needs • suit particular delivery methods • suit learner characteristics/profile However, any contextualisation must ensure that the integrity of the unit of competency is maintained. To guide users in contextualising the Advanced Diploma of Applied Blockchain units, contextualisation: • cannot involve changes to the wording of elements • cannot involve the removal of elements and/or performance criteria • can include the development of delivery programs for a specific audience e.g. finance sector, supply chain sector, public sector etc. ... can include a combination of RPL and gap training, where sufficient RPL evidence has been supplied
7.2 Resources	All delivery must be undertaken by trainers who meet the requirements stated to apply under *the Standards for Registered Training Organisations (RTOs) 2015*
8. Pathways and articulation	
8.1 Pathways and articulation	There are no formal articulation arrangements in place into other vocational education and training (VET) or higher education courses as this is a specialised course.

9. Ongoing monitoring and evaluation	
9.1 Ongoing monitoring and evaluation	The following ongoing monitoring and evaluation activities will occur regularly to maintain the courses currency and relevance to industry and community needs: • regular collection and analysis of both student and trainer feedback at the end of a course delivery • ongoing and regular contact with course licensees • ongoing contact with Peak Body – ADCA and Industry organisations involved in the original validation of the course • Surveys of organisations actively involved in applying blockchain technologies and / or operating within blockchain ecosystems • phone interviews with providers of the course during in the 4th year and 5th year of accreditation The monitoring and evaluation activities will collect feedback about the following aspects of the course to ensure its relevance and currency: • unit content / essential skills and knowledge for successful application of blockchain technologies • demographic information about course graduates and participants • strengths and weaknesses (including gaps in training) • range of electives • entry requirements • language, literacy and numeracy requirements • nominal hours • business model generation • the regulatory environment • application of smart contracts • minimum requirements for Trainers and Assessors • course outcomes In addition, the course developer, SOBC IP Pty Ltd (SOBC), is also a publisher of a full set of Applied Blockchain Learning Resources, Assessment Workbooks and Assessor Marking Guides, all of which map to the accredited Course. These resources are for use in the delivery and assessment of the accredited Course by any and all licensed providers of the Advanced Diploma of Applied Blockchain. The provision of these publications is itself part of SOBC's strategy to ensure that any student completing the Course, is engaged with materials that inherently are of a substantial standard and that SOBC has a continual source of feedback from within the VET Training industry. This also means that SOBC has regular contact with licensees through the publication ordering process. All course licensees are encouraged to contact SOBC with feedback relating to the course or its publications at any time. SOBC's Director, Nathan Burns will head the course Development Advisory Committee which, will be ultimately responsible for ensuring that these monitoring and evaluation processes take place during the period of accreditation of the course.

	Formal reviews by the Course Development Advisory Committee will occur annually throughout the five year cycle of accreditation of the course. Peak Body - ADCA, and course developer and Lead Trainer Assessor - Marcus Xavier will form part of the Course Development Advisory Committee. The final review will be late in the fourth year to allow time for re-development and industry engagement for the course and adequate time for finalisation of accreditation of any replacement course, publicity about the new course, to ensure a smooth transition to any replacement courses. The course accrediting body (ASQA) will be notified of any changes to the course resulting from course monitoring and evaluation.

Section C—Units of competency

CORE UNITS (all to be completed)	
Unit Code:	**Unit Name:**
BLKEBF001	Establish a blockchain framework for decentralised peer to peer consensus and innovation.
BLKDBM002	Develop a blockchain business model
BLKFRS003	Develop a blockchain network functional requirements specification
BLKSMC004	Create trust and activate a blockchain with smart contracts
BLKOBN005	Develop a framework for operating a blockchain network
BLKSNW006	Develop a strategic network framework for interoperability
ELECTIVE UNITS (2 to be completed)	
Unit Code:	**Unit Name:**
BLKTBO007	Prepare the organisation for transitioning operations to a blockchain network
BLKERE008	Develop a blockchain governance model for stewardship
BLKRFB009	Lead recruitment strategy for blockchain projects
BLKPER010	Analyse performance of a business model deployed on a blockchain

UNIT CODE	BLKEBF001
UNIT TITLE	Establish a blockchain framework for decentralised peer to peer consensus and innovation.
APPLICATION	This unit describes the performance outcomes, skills and knowledge to research system requirements, design a blockchain solution, establish potential for disintermediation, establish limitations, establish user value and investigate copportunities for innovation. Developing the ability to explain blockchain terminology, the technical and non-technical limitations of a blockchain, potential for disintermediation and opportunities for innovation created through the application of technologies. The unit applies to individuals including managers, senior operational personnel and/or internal/external specialists who are responsible for the development of new systems in small and large organisations in any community or industry context. No occupational licensing, certification or specific legislative requirements apply to this unit at the time of publication
PRE-REQUISITE UNIT	Not applicable
ELEMENT	**PERFORMANCE CRITERIA**
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Research system requirements	1.1 Lead team to analyse functional and non-functional aspects of current organisational systems 1.2 Seek information regarding current systems from a range of personnel within the organisation 1.3 Determine system Integrity requirements in consultation with relevant personnel and colleagues
2. Design blockchain solution	2.1 Investigate the foundations of Ownership in the context of a blockchain 2.2 Determine unique identification of ownership and restrict the access and authorisation of ownership transfer to the lawful owner. 2.3 Select strategies to identify and compare transaction data uniquely and quickly without comparing their content 2.4 Select strategies to monitor changes to data that is supposed to remain unchanged 2.5 Develop strategies for peer consensus to build trust into the Blockchain 2.6 Work with network operators to analyse the potential impact of computational power requirements on the blockchain
3. Establish potential	3.1 Consult with relevant stakeholders to identify intermediaries and

for disintermediation	evaluate their relevance within the blockchain ecosystem 3.2 Lead team to identify ways to utilise blockchain to disintermediate intermediaries
4. Establish limitations	4.1 Lead team to analyse the technical and non-technical aspects of blockchain to determine limitations for application 4.2 Report on limitations and recommend strategies to address identified limitations
5. Establish user value	5.1 Work with relevant stakeholders to assess the value added by using a peer-to-peer system over a centralised system 5.2 Consult with relevant stakeholders to clarify the application potential of a peer to peer system built on a blockchain 5.3 Document and make recommendations for consideration to senior managers
6. Investigate opportunities for innovation	6.1 Lead team to identify opportunities for application innovation created by a peer to peer network 6.2 Lead team to investigate opportunities for process innovation by applying generic application patterns of blockchain and peer-to-peer systems

FOUNDATION SKILLS

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

UNIT MAPPING INFORMATION	No equivalent unit
TITLE	Assessment Requirements for BLKEBF001 Establish a blockchain framework for decentralised peer to peer consensus and innovation.
PERFORMANCE EVIDENCE	The learner must show evidence of the ability to complete tasks outlined in the elements and performance criteria of this unit, manage tasks and manage contingencies in the context of the job role. There must be demonstrated evidence of the ability to; • Apply the principles of blockchain to peer to peer networks, to create user value, application and process innovation • Apply the tenets of blockchain and peer to peer networks to enable disintermediation of intermediaries • Use critical thinking skills to evaluate information from a range of source theorists • Communicate effectively with people from diverse roles within an organisation If a specific volume or frequency is not stated, then evidence must be provided at least once.
KNOWLEDGE EVIDENCE	The learner must be able to demonstrate essential knowledge required to effectively do the tasks outlined in the elements and performance criteria of this unit, manage the tasks and manage contingencies in the context of the work role.

	Including: : • Explain terminology and technical foundations of blockchain • Explain advantages and disadvantages of distributed systems • Explain decentralised networks to identify the core problem to be solved • Explain the common terms used in a blockchain ecosystem • Describe functional and non-functional aspects of organisational systems • Explain the concept and benefits of disintermediation • Describe consensus and trust in the context of a blockchain decentralised network • Explain the tenets of a blockchain and their application to organisational systems and business models • Explain how blockchain technologies can create value • Describe opportunities for innovation through the application of generic patterns of a blockchain .
ASSESSMENT CONDITIONS	The learner must be assessed in accordance with the elements and performance criteria of this unit. Simulated assessment environments must simulate a real world blockchain ecosystem. Assessment must be conducted in a safe environment where evidence gathered demonstrates consistent performance and includes access to: • workplace systems, processes and documents and • case studies and, where possible, real situations • interaction with others within an organisation and across an industry • current industry technology used in the development of organisational and enterprise systems. • current blockchain technologies and platforms used in the development of peer-to-peer networks ***Assessor Requirements:*** No specialist vocational competency requirements for Assessors apply to this unit.

UNIT CODE	BLKDBM002
UNIT TITLE	Develop a blockchain business model
APPLICATION	This unit describes the performance outcomes, skills and knowledge required to apply blockchain to the internet of things, develop a value proposition, disrupt the business model and prepare and present a business model. Developing the ability to conceptualise the Internet of Things (IoT), identify and create value through disruptive business model generation, consider Decentralised Autonomous Agents (DApps) to deliver identified value, craft and future proof a blockchain business model. The unit applies to individuals including entrepreneurs, visionaries, managers, senior operational personnel and/or internal/external specialists who are responsible for the development of new business models in small and large organisations in any community or industry context. No occupational licensing, certification or specific legislative requirements apply to this unit at the time of publication.
PRE-REQUISITE UNIT	Not applicable
ELEMENTS	**PERFORMANCE CRITERIA**
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Apply blockchain to the Internet of Things (IoT)	1.1 Identify Internet of Things (IoT) obstacles and examine solutions through the application of blockchain technologies 1.2 Lead team to identify opportunities to use blockchain to disrupt existing markets and business models
2. Develop a value proposition	2.1 Consult with relevant stakeholders to identify customer segments, their pain points and opportunities for gains 2.2 Identify the core problems by leading team to assess where value can be created for customers using blockchain and peer to peer networks 2.3 Consult with relevant stakeholders to identify potential intermediaries and strategies for disintermediation 2.4 Lead team to develop a business model that solves the core problems and delivers the identified value for customers 2.5 Source information from team to determine the economic payoff of the value proposition in the proposed business model 2.6 Communicate the intended model to all stakeholders and seek agreeance and approval from senior management

3. Disrupt the business model	3.1 Apply the tenets of blockchain decentralised models to disrupt or displace traditional centralised business models and boundaries of value 3.2 Apply Distributed Applications (DApps) to disrupt traditional centralised business and markets 3.3 Future proof traditional centralised business models by applying Decentralised Autonomous Agents (DAAs) and Decentralised Autonomous Enterprises (DAEs)
4. Prepare and present a blockchain business model	4.1 Lead team to develop a comprehensive business model that articulates and delivers the identified value proposition 4.2 Present and circulate proposed business models for comment, and implement recommendations 4.3 Seek support and endorsement from senior management and key stakeholders.

FOUNDATION SKILLS

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

UNIT MAPPING INFORMATION	No equivalent unit.
TITLE	Assessment Requirements for BLKDBM002 Develop a blockchain business model

PERFORMANCE EVIDENCE	The learner must show evidence of the ability to complete tasks outlined in the elements and performance criteria of this unit, manage tasks and manage contingencies in the context of the job role.
	There must be demonstrated evidence of the ability to:
	• Create a disruptive business model that includes:
	  ○ Market segments the business will serve
	  ○ A clearly articulated value proposition
	  ○ A distribution strategy
	  ○ Opportunties for disintermediation
	  ○ Application of Smart contracts
	  ○ Revenue generation
	  ○ Interoperability of on and off chain activities
	  ○ Areas of cooperation required
	  ○ Cost structures for the business model
	• Innovate a business model through the application of:
	  ○ Distributed Applications (DApps)
	  ○ Decentralised Autonomous Agents (DAAs)
	  ○ Decentralised Autonomous Enterprises (DAEs)
	• Clearly communicate a business model and its benefits to relevant stakeholders to gather support and endorsement for the model
	• Use critical thinking skills to evaluate information from a range of source theorists
	• Communicate effectively with people from diverse roles within an organisation
	
	If a specific volume or frequency is not stated, then evidence must be

	provided at least once.
KNOWLEDGE EVIDENCE	The learner must be able to demonstrate essential knowledge required to; effectively do the tasks outlined in the elements and performance criteria of this unit, manage the tasks and manage contingencies in the context of the work role. Including: • Explain the Internet of Things (IoT) and the role blockchain plays in activating it and overcoming obstacles to adoption • Explain the impact of blockchain technologies on disrupting existing markets and business models • Outline the importance of ensuring a common understanding of a business model • Describe each of the building blocks of a disruptive business model through the lens of the Business Model Canvas • Describe ways to innovate and future proof blockchain business models
ASSESSMENT CONDITIONS	The learner must be assessed in accordance with the elements and performance criteria of this unit. Simulated assessment environments must simulate a real world blockchain ecosystem. Assessment must be conducted in a safe environment where evidence gathered demonstrates consistent performance and includes access to: • workplace systems, processes and documents and • case studies and, where possible, real situations • interaction with others within an organisation and across an industry • current organisational requirements regarding change management and planning approvals • current industry technology used in the development of organisational and enterprise systems. • The Business Model Canvas • The Value Proposition Canvas ***Assessor Requirements:*** No specialist vocational competency requirements for Assessors apply to this unit.

UNIT CODE	BLKFRS003
UNIT TITLE	Develop a blockchain network functional requirements specification
APPLICATION	This unit describes the skills and knowledge required to develop a blockchain network functional requirements specification (FRS). It requires the ability to define the scope of a blockchain network implementation, conduct a feasibility analysis, identify, research, prioritise and document functional and non-functional requirements, and prepare and present a blockchain proposal. It applies to individuals including entrepreneurs, visionaries, managers, senior operational personnel and/or internal/external specialists who are responsible for analysing and developing business models, and creating functional specifications for technical teams to apply within a blockchain network, in small and large organisations in any community or industry context. No occupational licensing, certification or specific legislative requirements apply to this unit at the time of publication.
PRE-REQUISITE UNIT *OPTIONAL FIELD*	Not applicable
ELEMENT	**PERFORMANCE CRITERIA**
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Define the scope of a blockchain network	1.1 Consult with stakeholders to define the purpose, required outcomes, deliverables, and limitations of the blockchain network 1.2 Review and evaluate the scope of the blockchain network with the blockchain network sponsor and apply outcomes of the review
2. Develop detailed feasibility analysis	2.1 Lead team to undertake a technical, economic and organisational feasibility studies of the blockchain network Ensure risks associated with the feasibility analysis of the proposed blockchain network are assessed 2.2 Document the feasibility analysis including a risk analysis and circulate to team for comment and feedback
3. Research functional requirements	3.1 Consult with stakeholders and participants to identify the components of the blockchain 3.2 Gather detailed information about the problem/s that the proposed blockchain network will solve 3.3 Ensure functional and non-functional requirements have been identified 3.4 Work with relevant stakeholders to identify the system and user

	interfaces are to look and function 3.5 Lead team to determine the prioritization of requirements and that they align with the identified purpose, deliverables, organisational and industry goals 3.6 Prepare a prioritized table of the proposed identified functional requirements and circulate to relevant stakeholders to confirm requirements
4. Prepare and present a blockchain network proposal	4.1 Produce and document specifications to include both Functional and Non Functional Requirements Specification 4.2 Present the final functional requirements specification to relevant stakeholders for acceptance 4.3 Seek organisational approval and communicate the finalised specification to the relevant stakeholders

FOUNDATION SKILLS

Foundation skills essential to performance are outlined in the Qualification and are explicit in the performance criteria of this unit of competency

UNIT MAPPING INFORMATION	No equivalent unit.
TITLE	Assessment Requirements for BLKFRS003 Develop a blockchain network functional requirements specification

PERFORMANCE EVIDENCE	The learner must show evidence of their ability to complete tasks outlined in the elements and performance criteria of this unit, manage tasks and manage contingencies in the context of the job role. There must be demonstrated evidence of the ability to:
	• Develop a detailed Scope Document for a blockchain network including;
	  • Its purpose
	  • Required outcomes
	  • Deliverables
	  • Limitations
	• Conduct feasibility analysis for a blockchain project including;
	  • Technical feasibility
	  • Economic feasibility
	  • Organisational feasibility
	  • A risk assessment tightly aligned to the scope of the proposed blockchain network
	• Develop a functional requirements specification for a blockchain project
	
	If a specific volume or frequency is not stated, then evidence must be provided at least once.

KNOWLEDGE EVIDENCE	The learner must be able to demonstrate essential knowledge required to effectively do the tasks outlined in elements and performance criteria of this unit, manage the tasks and manage contingencies in the context of the work role. Including: • Describe functional and non-functional blockchain network requirements • Describe the role of a blockchain network user interface • Explain the requirement for feasibility analysis from technical, economic and organisational perspectives • Describe potential risks associated with implementing a blockchain network • Outline the structure of a Functional Requirements Specification (FRS) • Describe project approval protocols • Explain the necessity of communicating a specification to stakeholders to gain support and endorsement
ASSESSMENT CONDITIONS	The learner must be assessed in accordance with the elements and performance criteria of this unit. Simulated assessment environments must simulate a real world blockchain ecosystem. Assessment must be conducted in a safe environment where evidence gathered demonstrates consistent performance and includes access to: • workplace systems, processes and documents and • case studies and, where possible, real situations • interaction with others within an organisation and across an industry • current organisational requirements regarding planning approvals • current industry technology used in the development of organisational and enterprise systems. ***Assessor Requirements:*** No specialist vocational competency requirements for Assessors apply to this unit.

UNIT CODE	BLKSMC004
UNIT TITLE	Create trust and activate a blockchain with smart contracts
APPLICATION	This unit describes the skills and knowledge required to create trust, activate transactions and replace expensive and time consuming intermediaries within a blockchain network. It requires the ability to effectively work with teams to conceptualise trust through consensus, develop a specification for a smart contract and overcome issues when activating a blockchain network. It applies to individuals including smart contract developers and consultants, entrepreneurs, visionaries, managers, senior operational personnel and/or internal/external specialists who are responsible for the development of new business models, creating trust and activating transactions within a blockchain network, in small and large organisations in any community or industry context. No occupational licensing, certification or specific legislative requirements apply to this unit at the time of publication.
PRE-REQUISITE UNIT	Not applicable
ELEMENTS	**PERFORMANCE CRITERIA**
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Develop trust in blockchain transactions	1.1 Establish the roles of a smart contract in activating a blockchain network 1.2 Use consensus in a blockchain to create trust through self-executing smart contracts 1.3 Use reputation systems to address default and issues of trustworthiness 1.4 Solve disputes using Multisig and Arbitrators 1.5 Identify the benefits of a trusted blockchain by applying smart contracts
2. Solve problems with smart contracts	2.1 Lead team to evaluate the potential applications of a smart contract to solve problems in a decentralised peer-to-peer network 2.2 Secure smart contacts using digital signatures
3. Establish interactions with off-chain data sources	3.1 Modify a Smart Contract behavior by interacting with Oracles 3.2 Work with stakeholders to identify uses for off-chain services
4. Develop a Smart	4.1 Source information from personnel within the organisation to

Contract specification	identify the problem that the Smart Contract is to solve, and the participants and contributors required to arrive at the outcome 4.2 Work with stakeholders to reach agreement and a mutual understanding of the terms and conditions of transactions activated within the contract 4.3 Lead team to develop and compile a Transaction Map that maps the business logic using if-then logic 4.4 Work with stakeholders to ensure valid intermediary functions have been identified for the transactions 4.5 Oversee a specification review process to ensure agreement between specification designers and code developers
FOUNDATION SKILLS Foundation skills essential to performance are outlined in the Qualification and are explicit in the performance criteria of this unit of competency	
UNIT MAPPING INFORMATION	No equivalent unit.
TITLE	Assessment Requirements for BLKSMC004 Create trust and activate a blockchain with smart contracts

PERFORMANCE EVIDENCE	The learner must show evidence of the ability to complete tasks outlined in the elements and performance criteria of this unit, manage tasks and manage contingencies in the context of the job role. There must be demonstrated evidence of the ability to:
	• Lead a team to evaluate and apply the tenets of smart contracts to:
	  • Create trust
	  • Solve disputes through the use of Multisig and Arbitrators
	• Prepare a smart contract specification, that includes;
	  • Articulation of the problem to be solved
	  • Articulation of agreed terms and conditions of a transaction
	  • A transaction map that uses if-then logic to map processes
	  • Valid intermediary functions
	  • A review process that seeks agreement for the smart contract specification with relevant stakeholders
	If a specific volume or frequency is not stated, then evidence must be provided at least once.

KNOWLEDGE EVIDENCE	The learner must be able to demonstrate essential knowledge required to effectively do tasks outlined in the elements and performance criteria of this unit, manage the tasks and manage contingencies in the context of the work role. Including:

	• Describe the tenets of Smart Contracts • Explain how trust can be created through consensus • Explain the role of Reputation systems in addressing default and issues of trustworthiness • Explain the role of Multisig and Arbitrators in Smart Contracts • Outline a range of potential applications of Smart Contracts and the problems that they might solve • Explain how Oracles can modify the behaviors of a Smart Contract • Explain how Smart Contracts can work with off-chain services • Explain the necessity for a Smart Contract review process.
ASSESSMENT CONDITIONS	The learner must be assessed in accordance with the elements and performance criteria of this unit. Simulated assessment environments must simulate a real world blockchain ecosystem. Assessment must be conducted in a safe environment where evidence gathered demonstrates consistent performance and includes access to: • workplace systems, processes and documents and • case studies and, where possible, real situations • organisational documentation relating to agreements and contracts • interaction with others within an organisation and across an industry • current organisational requirements regarding planning approvals • current industry technology used in the development of organisational and enterprise systems. ***Assessor Requirements:*** No specialist vocational competency requirements for Assessors apply to this unit.

UNIT CODE	BLKOBN005
UNIT TITLE	Develop a framework for operating a blockchain network
APPLICATION	This unit describes the skills and knowledge required to design a framework for operating a blockchain network. The framework will look at the objective of consensus and a typical flow of execution of a transaction to become distributed and validated by the network. It requires the ability to determine who can participate in the blockchain, gather valid transactions from participants, generate and sign blocks of valid transactions, distribute blocks to participants and a process to manage operator membership It applies to individuals including managers, senior operational personnel and/or internal/external specialists who are responsible for the flow of execution of a blockchain transaction and management of operators in small and large blockchain networks applied by organisations in any community or industry context. No occupational licensing, certification or specific legislative requirements apply to this unit at the time of publication.
PRE-REQUISITE UNIT	Not applicable
ELEMENT	**PERFORMANCE CRITERIA**
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1 Review blockchain network components	1.1. Consult stakeholders to determine the components of the blockchain network aligned to the business model 1.2. Obtain information from stakeholders to identify architectural aspects to enable a secure blockchain
2 Establish the basis for peer network operations	2.1 Select participants for inclusion in consultation with the business model 2.2 Select strategies to ensure network peers are talking to front end systems
3 Establish a consensus protocol	3.1 Lead team to develop a typical flow of execution of a transaction distributed and validated by the network 3.2 Oversee the design of validation processes that ensure each transaction is properly signed by a quorum of block signers and does not double spend asset units 3.3 Source information from specialists to select appropriate algorithms to achieve consensus within the blockchain

4 Develop a framework for blockchain network operations	4.1 Implement a typical transaction flow of execution that addresses participant permissions, validation and distribution of the block 4.2 Lead team to design an audit process that ensures the block has never been validated at the same level in the blockchain 4.3 Work with relevant stakeholders to determine a rationale for adding or removing blockchain operators 4.4 Document the framework and circulate to stakeholders 4.5 Conduct regular evaluation and review of the framework and modify where appropriate to maintain operation of the network
FOUNDATION SKILLS Foundation skills essential to performance are outlined in the Qualification and are explicit in the performance criteria of this unit of competency	
UNIT MAPPING INFORMATION	No equivalent unit.
TITLE	Assessment Requirements for BLKOBN005 Develop a framework for operating a blockchain network

PERFORMANCE EVIDENCE	The learner must show evidence of the ability to complete tasks outlined in the elements and performance criteria of this unit, manage tasks and manage contingencies in the context of the job role. There must be demonstrated evidence of the ability to:
	• Design a framework for blockchain operations that addresses:
	  ○ Essential components and architecture of the network
	  ○ Consensus protocols
	  ○ Transaction flow of execution
	  ○ Addition and removal of operators
	• Use critical thinking skills to evaluate information from a range of source theorists
	• Communicate effectively with people from diverse roles within an organisation
	• Identify rationale for adding or removing network operators to maintain the integrity of the network
	
	If a specific volume or frequency is not stated, then evidence must be provided at least once.

KNOWLEDGE EVIDENCE	The learner must be able to demonstrate essential knowledge required to effectively do the tasks outlined in elements and performance criteria of this unit, manage the tasks and manage contingencies in the context of the work role. Including: • Explain the difference between blockchain deployment and development concerns • Describe the components and architectural aspects of a blockchain in the context of the business model • Explain how consensus is achieved in a peer to peer network

	• Explain the typical flow of execution of a transaction to become distributed and validated by the network • Explain the circumstances that would require the addition or removal of a blockchain operator
ASSESSMENT CONDITIONS	The learner must be assessed in accordance with the elements and performance criteria of this unit. Simulated assessment environments must simulate a real world blockchain ecosystem. Assessment must be conducted in a safe environment where evidence gathered demonstrates consistent performance and includes access to: • workplace systems, processes • case studies and, where possible, real situations • relevant workplace documentation and business models • interaction with others within an organisation and across an industry • current industry technology used in the development of organisational and enterprise systems. ***Assessor Requirements:*** No specialist vocational competency requirements for Assessors apply to this unit.

UNIT CODE	BLKSNW006
UNIT TITLE	Develop a strategic network framework for blockchain interoperability
APPLICATION	This unit describes the skills and knowledge required to identify and form strategic networks to facilitate the interoperability between a blockchain network and an organisations current private and or public networks. The candidate will look at the objective of developing a strategic network framework that facilitates blockchain interoperability. It requires the ability to develop cooperative relationships and align them to the outcomes of the planned blockchain network, understand where effective interoperability is required with cross chain and other enterprise systems, and to effectively maintain strategic networks critical to the performance of the blockchain network. It applies to individuals including managers, senior operational personnel and/or internal/external specialists who are responsible for the implementation of and/ or transition to a blockchain network. No occupational licensing, certification or specific legislative requirements apply to this unit at the time of publication.
PRE-REQUISITE UNIT	Not applicable
ELEMENT	**PERFORMANCE CRITERIA**
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Manage relationships in blockchain networks	1.1 Develop cooperative relationships to be a source of competitive strength 1.2 Align cooperative relationships to the organisational strategy in the context of a blockchain network implementation 1.3 Clarify and document the benefits and constraints of strategic networks when implementing a blockchain network in consultation with team members
2. Analyse a blockchain ecosystem for interoperability	2.1 Lead team to analyse critical areas of cross chain and enterprise system interoperability with a blockchain ecosystem 2.2 Consult with relevant stakeholders to prioritise interoperability requirements to align with the approved business model priorities
3. Implement a strategic network framework for blockchain	3.1 Consult with relevant stakeholders to identify the composition of a strategic network that will facilitate blockchain interoperability 3.2 Ensure the application of a relational approach as opposed to a competitive approach to a strategic network framework

interoperability	3.3 Consult with relevant stakeholders to identify ways to overcome challenges associated with facilitating interoperability 3.4 Document the strategic network framework and circulate to relevant stakeholders within the ecosystem
4. Maintain a strategic network	4.1 Lead consultation with stakeholders to develop strategies to build and maintain working relationships with the network participants and establish effective communication channels for the exchange of strategic information. 4.2 Activate strategies to develop a review process of cross chain and enterprise system interoperability. Within the blockchain network. 4.3 Conduct regular evaluation and modify plan where appropriate to achieve objectives

FOUNDATION SKILLS

Foundation skills essential to performance are outlined in the Qualification and are explicit in the performance criteria of this unit of competency

UNIT MAPPING INFORMATION	No equivalent unit.
TITLE	Assessment Requirements for BLKSNW006 Develop a strategic network framework for blockchain interoperability

PERFORMANCE EVIDENCE	The learner must show evidence of the ability to complete tasks outlined in the elements and performance criteria of this unit, manage tasks and manage contingencies in the context of the job role. There must be demonstrated evidence of the ability to:
	• Develop a strategic network framework that
	  ○ uses a relational approach
	  ○ facilitates interoperability with other networks and enterprise systems
	  ○ includes strategies to maintain effective working relationships and communication across networks and the ecosystem.
	○ Use critical thinking skills to evaluate information from a range of source theorists
	○ Communicate effectively with people from diverse roles within an organisation
	If a specific volume or frequency is not stated, then evidence must be provided at least once.

KNOWLEDGE EVIDENCE	The learner must be able to demonstrate essential knowledge required to effectively do the task outlined in the elements and performance criteria of this unit, manage the task and manage contingencies in the context of the work role. Including: • Explain why cooperative relationships can be a source of competitive strength

	• Describe how to align cooperative relationships to the organisational strategy in the context of a blockchain network implementation • Describe the benefits and constraints of strategic networks in the context of a blockchain network implementation • Explain what is meant by critical areas of cross chain and enterprise system • Explain why a relational approach as opposed to a competitive approach to a strategic network is more effective • Explain the importance of effective communication channels between strategic network participants and ways to ensure that working relationships are maintained across strategic network participants • Explain the relevance of a review process for cross chain and enterprise system interoperability
ASSESSMENT CONDITIONS	The learner must be assessed in accordance with the elements and performance criteria of this unit. Simulated assessment environments must simulate a real world blockchain ecosystem Assessment must be conducted in a safe environment where evidence gathered demonstrates consistent performance and includes access to: • workplace systems, processes • case studies and, where possible, real situations • relevant workplace documentation and plans • interaction with others within an organisation and across a blockchain ecosystem • current organisational and industry based strategic networks. ***Assessor Requirements:*** No specialist vocational competency requirements for Assessors apply to this unit.

UNIT CODE	BLKTBO007
UNIT TITLE	Prepare the organisation for transitioning operations to a blockchain network
APPLICATION	This unit describes the skills and knowledge required when preparing an organisation for a transition of all or part of the business operations to a blockchain network. Developing the ability to prepare the business for transition, evaluate functional architectural requirements, develop a transition plan and design a decision making framework for managing the transition. It applies to individuals including managers, senior operational personnel and/or internal/external specialists who are responsible for the implementation and transition to a blockchain network. No occupational licensing, certification or specific legislative requirements apply to this unit at the time of publication.
PRE-REQUISITE UNIT	Not applicable
ELEMENT	**PERFORMANCE CRITERIA**
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Research organisational needs	1.1 Lead development of internal strategies for implementing change requirements to a blockchain network 1.2 Determine the leadership, support and coordination requirements to facilitate a blockchain implementation 1.3 Gain approval for implementation from senior management for implementation
2. Develop a transition plan	2.1 Assess blockchain technologies to determine systems architecture requirements 2.2 Analyse the generic building blocks of the proposed blockchain and determine architectural issues to be resolved 2.3 Consult with team to prepare and document a plan for transitioning operations to the new architecture 2.4 Seek feedback from senior management and stakeholders within the organisation to confirm availability of resources, potential issues, support for the plan and recommendations for improvement 2.5 Conduct regular evaluation and review, and modify the transition plan where appropriate to achieve transition objectives
3. Design a decision making framework	3.1 Evaluate the competencies of personnel within the organisation in blockchain deployment and propose solutions to address skill requirements 3.2 Determine potential external partnerships that will provide input into the decision making process 3.3 Lead the team to develop a framework for decision making between

	the organisation and its external partners 3.4 Seek support and endorsement from senior management and participants in the framework 3.5 Conduct regular review of the decision making framework and modify where appropriate to achieve the framework objectives

FOUNDATION SKILLS Foundation skills essential to performance are outlined in the Qualification and explicit in the performance criteria of this unit of competency.	
UNIT MAPPING INFORMATION	No equivalent unit.
TITLE	Assessment Requirements for BLKTBO007 Prepare the organisation for transitioning operations to a blockchain network
PERFORMANCE EVIDENCE	The learner must show evidence of the ability to complete tasks outlined in the elements and performance criteria of this unit, manage tasks and manage contingencies in the context of the job role. There must be demonstrated evidence of the ability to: • Document a transition plan and communicate actions to be undertaken with appropriate personnel and stakeholders • Seek feedback, analyse the feedback and make adjustment to the plan to incorporate the recommendations. • Use critical thinking skills to evaluate information from a range of source theorists • Communicate effectively with people from diverse roles within an organisation If a specific volume or frequency is not stated, then evidence must be provided at least once.
KNOWLEDGE EVIDENCE	The learner must be able to demonstrate essential knowledge required to effectively do the tasks outlined in elements and performance criteria of this unit, manage the tasks and manage contingencies in the context of the work role. Implementation strategies for a blockchain network Including: • Explain organisational readiness to transition to blockchain technologies • Explain the difference between disrupting or constructing when considering blockchain functional architecture • Explain the effect of blockchain network building blocks on the functional architecture • Describe external partnerships that may be required to transition to or implement a blockchain network • Explain the importance of a decision making framework to facilitate: o clarity of purpose,

	○ outcomes and ○ decision making between the organisation and its external partners
ASSESSMENT CONDITIONS	The learner must be assessed in accordance with the elements and performance criteria of this unit. Simulated assessment environments must simulate a real world blockchain ecosystem. Assessment must be conducted in a safe environment where evidence gathered demonstrates consistent performance and includes access to: • workplace systems, processes • case studies and, where possible, real situations • workplace human resource competency records • organisational policies around decision making processes and escalation • interaction with others within an organisation and across a blockchain ecosystem **Assessor Requirements:** No specialist vocational competency requirements for Assessors apply to this unit.

UNIT CODE	BLKERE008
UNIT TITLE	Develop a blockchain governance model for stewardship
APPLICATION	This unit describes the skills and knowledge required to evaluate the blockchain regulatory and governance environment and develop a governance model that provides stewardship for a blockchain ecosystem. The candidate will consider impacts of the regulatory environment and the role of governance within the deployment of distributed ledger technologies. It requires the ability to conceptualise the role of governance and stewardship at an organizational and industry level, and how they interact with and align to jurisdictional regulatory environments. It applies to individuals including managers, senior operational personnel and/or internal/external specialists who are responsible for the implementation of and/ or transition to a blockchain network. No occupational licensing, certification or specific legislative requirements apply to this unit at the time of publication
PRE-REQUISITE UNIT	Not applicable
ELEMENT	**PERFORMANCE CRITERIA**
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Establish the legal and regulatory challenges	1.1 Lead team to investigate and evaluate the differentiating characteristics between regulation and stewardship 1.2 Investigate and evaluate the legal and just use of blockchain technologies in innovative use cases 1.3 Determine key areas of global legal and regulatory focus in the context of blockchain technologies
2. Define the role of regulation within blockchain networks.	2.1 Establish regulators and regulations that apply within a blockchain ecosystem 2.2 Consult stakeholders to evaluate the role of regulation and governance in protecting consumers and citizens 2.3 Identify strategies for meeting regulators obligations in a blockchain use case in consultation with stakeholders 2.4 Work with relevant stakeholders to identify the risks of regulating pre-maturely
3. Establish foundations for a blockchain governance network	3.1 Consult with stakeholders to identify ways to improve transparency and improve industry behavior 3.2 Lead team to analyse existing Internet governance models for application to blockchain governance 3.3 Lead team to evaluate blockchain governance challenges in the

	areas of Platform, Application and Ecosystem 3.4 Identify the use of Global Solutions Networks in addressing global governance issues 3.5 Report on existing internet governance models, challenges and the role of Global Solutions Networks in solving challenges
4. Design a stewardship framework	4.1 Evaluate platform, application and ecosystem challenges for regulatory and governance impacts 4.2 Develop a stewardship framework for a blockchain ecosystem to address identified platform, application and ecosystem challenges 4.3 Seek support and endorsement from senior management and ecosystem stakeholders 4.4 Conduct regular evaluation and review and modify the stewardship framework where appropriate to achieve objectives of the framework

FOUNDATION SKILLS Foundation skills essential to performance are outlined in the Qualification and explicit in the performance criteria of this unit of competency.	
UNIT MAPPING INFORMATION	No equivalent unit.
TITLE	Assessment Requirements for BLKERE008 Develop a blockchain governance model for stewardship
PERFORMANCE EVIDENCE	The learner must show evidence of the ability to complete tasks outlined in the elements and performance criteria of this unit, manage tasks and manage contingencies in the context of the job role. There must be demonstrated evidence of the ability to:: • Identify the legal and regulatory environment, and governance foundations for a blockchain ecosystem • Prepare a stewardship for a blockchain ecosystem • Use critical thinking skills to evaluate information from a range of source theorists • Communicate effectively with people from diverse roles within an organisation If a specific volume or frequency is not stated, then evidence must be provided at least once.
KNOWLEDGE EVIDENCE	The learner must be able to demonstrate essential knowledge required to effectively do the tasks outlined in elements and performance criteria of this unit, manage the tasks and manage contingencies in the context of the work role. Including • Explain the concept of blockchain as a global resource • Explain blockchain as a new global resource

	• Explain the difference between governance and stewardship of a blockchain ecosystem • Describe legal and just uses of blockchain technologies • Describe key areas of global regulatory attention in the context of blockchain technologies • Explain the role of regulators in protecting consumers and citizens • Explain regulator obligations in a blockchain use case • Describe the risks of regulating prematurely based on lessons from the internet • Explain transparency of industries using blockchain • Explain governance challenges in the areas of Platform, Application and Ecosystem • Outline the role of a Global Solutions Network • Explain stewardship of a blockchain ecosystem
ASSESSMENT CONDITIONS	The learner must be assessed in accordance with the elements and performance criteria of this unit. Simulated assessment environments must simulate a real world blockchain ecosystem. Assessment must be conducted in a safe environment where evidence gathered demonstrates consistent performance and includes access to: • workplace systems, processes • case studies and, where possible, real situations • interaction with others within an organisation and across a blockchain ecosystem • current organisational and industry regulatory environments ***Assessor Requirements:*** No specialist vocational competency requirements for Assessors apply to this unit.

UNIT CODE	BLKRFB009
UNIT TITLE	Lead recruitment strategy for blockchain projects
APPLICATION	This unit describes the skills and knowledge required to Developing the ability to analyse the job market, create candidate profiles and devise a recruitment strategy to recruit blockchain talent. It applies to individuals including managers, senior operational personnel and/or internal/external specialists who are responsible for the implementation of and/ or transition to a blockchain network, who need to recruit specialist or experienced blockchain teams. No occupational licensing, certification or specific legislative requirements apply to this unit at the time of publication.
PRE-REQUISITE UNIT	Not applicable
ELEMENT	**PERFORMANCE CRITERIA**
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Analyse the blockchain job market	1.1 Source data to analyse the fragmentation of mass markets to establish the impact of fragmentation on the strategic recruitment process 1.2 Evaluate impacts on supply and demand created by the exponential growth in the blockchain space
2. Establish candidate profiles	2.1 Analyse the characteristics of the blockchain job market to build a foundation for job profiles 2.2 Collaborate with human resource specialists to prepare position and person profiles alignment with job profiles
3. Devise a recruitment strategy	3.1 Identify the benefits of using blockchain applications to attract talent from within the blockchain space 3.2 Monitor human resource team to ensure the main obligations of staff and employers are defined in smart contracts 3.3 Oversee human resource team to ensure candidate reputation is based on fact and an immutable record of performance is held on the blockchain 3.4 Develop a recruitment strategy using a blockchain application 3.5 Seek approval for implementation of the strategy from senior management 3.6 Conduct regular evaluation and review, and modify the recruitment strategy where appropriate to achieve the strategy objectives

FOUNDATION SKILLS Foundation skills essential to performance are outlined in the Qualification and are explicit in the performance criteria of this unit of competency	
UNIT MAPPING INFORMATION	No equivalent unit.
TITLE	Assessment Requirements for BLKRFB009 Lead recruitment strategy for blockchain projects

PERFORMANCE EVIDENCE	The learner must show evidence of the ability to complete tasks outlined in the elements and performance criteria of this unit, manage tasks and manage contingencies in the context of the job role. There must be demonstrated evidence of the ability to:
	
	• Build job profiles based on industry research
	• Develop a recruitment strategy for blockchain talent that:
	  ○ Engage with organisational teams and human resource specialists
	  ○ Use a blockchain application to attract blockchain talent to apply
	  ○ Use smart contracts and reputation systems
	  ○ Returns ownership of personal data to the candidate
	• Use research and critical thinking skills to evaluate information from a range of source theorists
	• Communicate effectively with people from diverse roles internal and external to the organisation
	
	If a specific volume or frequency is not stated, then evidence must be provided at least once.

KNOWLEDGE EVIDENCE	The learner must be able to demonstrate essential knowledge required to effectively do the tasks outlined in elements and performance criteria of this unit, manage the tasks and manage contingencies in the context of the work role. Including: • Explain the impacts of fragmentation of mass markets and exponential growth in the blockchain job market • Explain the process to develop candidate profiles including job profiles, position profiles and person profiles within the blockchain job market • Describe the benefits of using a blockchain application to attract blockchain talent • Explain how returning ownership of personal data creates trust and relevance for an organisation • Explain the benefits of applying Smart contracts to the recruitment process • Explain the benefits of applying Reputation systems in the recruitment process

	• Explain methods used to maintain immutable candidate records
ASSESSMENT CONDITIONS	The learner must be assessed in accordance with the elements and performance criteria of this unit. Simulated assessment environments must simulate a real world blockchain ecosystem. Assessment must be conducted in a safe environment where evidence gathered demonstrates consistent performance and includes access to: • workplace recruitment policies • workplace documents including position and job description templates • case studies and, where possible, real situations • smart contract technologies ***Assessor Requirements:*** No specialist vocational competency requirements for Assessors apply to this unit.

UNIT CODE	BLKPER010
UNIT TITLE	Analyse performance of a business model deployed on a blockchain
APPLICATION	This unit describes the performance outcomes, skills and knowledge required to analyse the performance of a business model that has been deployed on a blockchain. It assesses performance to the planned deliverables of the model as opposed to the technical performance of the underlying technologies. The candidate will evaluate the performance of a business model from a range of critical performance characteristics, contained in the approved blockchain business model. It requires the ability to understand the building blocks and deliverables determined through the Business Model Canvas, and the identified value proposition using Blue Ocean Strategy filters. Learners will require the ability to analyse performance to plan and be able to effectively report on the analysis. It applies to individuals including managers, senior operational personnel and/or internal/external specialists who are responsible for the implementation of and/ or transition to a blockchain model, who are charged with reviewing the performance of the blockchain model post implementation and/or transition. No occupational licensing, certification or specific legislative requirements apply to this unit at the time of publication.
PRE-REQUISITE UNIT	BLKDBM002 Develop a blockchain business model
ELEMENT	**PERFORMANCE CRITERIA**
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Establish a baseline for performance review	1.1 Source information and conduct a review of the business performance and establish a baseline 1.2 Document the baseline performance expectations of the business model and circulate to all relevant stakeholders for feedback. 1.3 Analyse feedback and consider relevance to desired outcome, and include selected recommendations
2. Identify opportunities for improvement	2.1 Conduct a strengths, weakness, opportunity analysis (SWOT) of the business model performance against plan 2.2 Lead review of findings to identify key opportunities for improvement 2.3 Report on the SWOT analysis including recommendations for improvements to the business model
3. Develop strategies for business model	3.1 Evaluate strategic performance for gaps and strengths and

improvement	recommend appropriate remedial action 3.2 Develop clear performance measures that address all key aspects of business model performance and opportunities. 3.3 Communicate a report to relevant stakeholders for approval documenting recommendations and actions for performance improvements to the business model
FOUNDATION SKILLS Foundation skills essential to performance are outlined in the Qualification and are explicit in the performance criteria of this unit of competency	
UNIT MAPPING INFORMATION	No equivalent unit.
TITLE	Assessment Requirements for BLKPER010 Analyse performance of a business model deployed on a blockchain
PERFORMANCE EVIDENCE	The learner must show evidence of the ability to complete tasks outlined in the elements and performance criteria of this unit; manage tasks and manage contingencies in the context of the job role. There must be demonstrated evidence of the ability to: • Benchmark business model performance • Undertake SWOT (strengths, weaknesses, opportunities, threats) assessment analysis to identify areas of performance improvement in the business model • Develop strategies for improving business model performance • Present viable recommendations and actions for improvement to relevant stakeholder for acceptance and approval • Use critical thinking skills to evaluate information from a range of source theorists • Communicate effectively with people from diverse roles internal and external to the organisation If a specific volume or frequency is not stated, then evidence must be provided at least once.

KNOWLEDGE EVIDENCE	The learner must be able to demonstrate essential knowledge required to effectively do the tasks outlined in elements and performance criteria of this unit, manage the tasks and manage contingencies in the context of the work role. Including::
	• Explain performance benchmarking in these areas of a business model deployed on a blockchain:
	  • value proposition
	  • intermediaries
	  • on and off chain interoperability
	  • revenue
	  • cost structures
	• Purpose and application of gap analysis including SWOT analysis and developing improvement strategies

ASSESSMENT CONDITIONS	The learner must be assessed in accordance with the elements and performance criteria of this unit. Simulated assessment environments must simulate a real world blockchain ecosystem.

	Assessment must be conducted in a safe environment where evidence gathered demonstrates consistent performance and includes access to: • organisational records • workplace documents and reports • the approved Business Model • simulated case study where the learner does not have access to a use case. ***Assessor Requirements:*** No specialist vocational competency requirements for Assessors apply to this unit.