

ICTICT527 Develop and maintain blockchain solutions

Release: 1

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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 identify, develop and maintain blockchain solutions to specified business needs.

It applies to those in roles, including senior software developers or blockchain developers, who perform the planning, development and implementation of new and existing technologies to business models in the 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

https://github.com /kdnolanchisholm/

Fork Github repo and describe needs of their industry

Industry

Focused

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
Determine blockchain solution requirements	1.1 Establish blockenain objectives, purpose and requirements according to organisational needs
Proof of Work and Proof of Transfer	1.2 Identify organisational processes and transactional types suitable for blockchain technology
GithubRepo forkk answer 1.3 for their industry	1.3 Identify organisational use-case according to organisational needs
Research and reference in Github Repo Fork 1.4	1.4 Determine legislation and organisational policies and procedures for blockchain and determine impact on solution
Design blockchain solution components	2.1 Gather data according to organisational needs 2.2 Design integration workflow according to organisational need

Fork Github Repo - gather and report data (spreadsheet) https://qithub.com/kdnolanchisholm/ICTICT52 Diagram (EG MIRO) embed in fork https://github.com/kdnolanchisholm/ICTICT527

PwC's Skills for Australia

Approved Page 2 of 4

Get feedback from end users in your organisation - document feedback in

PwC's Skills for Australia

GitHub Projects feature - relates to workflow design	2.3 Determine security and platform for blockchain solution 2.4 Document design plan according to organisational needs	
3. Implement blockchain solution run the code or L2 solution Run Smart contract that settles on Layer 2 or define smart contracts on basechain (github fork)	3.1 Set up required platform according to design plan 3.2 Initialise blockchain solution according to vendor specifications 3.3 Implement required consensus portal protocol works with project (GithubFord according to blockchain solution according to scale your code and/or define how the blockchain is scaled (github fork)	onsensus h your
4. Maintain blockchain solution run test instances of blockchain transactions to determine if the solution meets needs	4.1 Test performance against organisational needs and requirements 4.2 Determine and conduct maintenance tests 4.3 Determine and document maintenance schedule 4.4 Submit documentation to required personnel and seek and respond to feedback	Run test instances of blockchain transactions at regular intervals + document in Github template

Foundation Skills

Hashrate

Github documentation peer-reviewed

documentat ion peer-reviewed

working with different L2 solutions + basechain

report

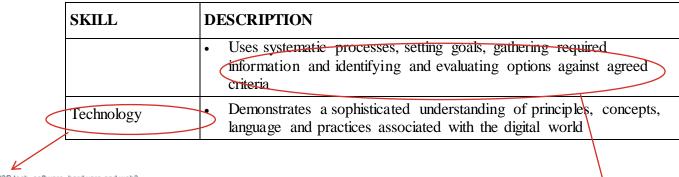
Peer-reviewed Github

calculator +

explainations documented This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

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	SKILL	DESCRIPTION GitHub documentation - reasoning articulated behind btc blockchain solution	
	Learning	Monitors outcomes of decisions, considering results and identifying key concepts and principles that may be adaptable in the future	
	Numeracy	Uses mathematical formulae to calculate required equipment, undertake measurements and determine response times	Referencing the BTC whitepaper - ongoing questions
-	Oral communication	Obtains information to confirm requirements and responsibilities distinctively using appropriate industry language	
	Reading	Recognises and interprets technical, manufacturer and organisational documentation to determine and confirm job requirements	requirements
	Writing	Prepares documentation outlining maintenance schedule according to specified requirements	identified + use of tools to make project goalsclear
	Planning and organising	Operates from a broad conceptual plan, developing the operational detail in stages, regularly reviewing priorities and performance during implementation, and identifying and addressing issues	
	Problem solving	Uses nuanced understanding of context to recognise anomalies and subtle deviations to normal expectations, focusing attention and remedying problems as they arise	
	Self-management	Takes full responsibility for identifying and considering relevant organisational protocols and requirements	

Approved Page 3 of 4



P2P tech, software, hardware and web3 protocols used as much as possible

BTC protocol base

Unit Mapping Information

No equivalent unit. New unit.

Documentation of overall project via github fork - and using project tool to identify and evaluation

peer-review important

Links

Companion Volume Implementation Guide is found on VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2

Approved Page 4 of 4