TSOBTC001 Git Basics and Decentralised Networks

Release: 1

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Modification History

Release	Comments
Release 1	This version was first released with the Bitcoin Training Package Version 1.0.

Application

This unit describes the skills and knowledge required to identify, develop and maintain a decentralised network utilising git.

It applies to those in roles such as Bitcoin developers, Bitcoin engineers, Bitcoin architects, blockchain developers, Information and Communications Technology (ICT) and related industries.

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Unit Sector

Bitcoin

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Utilising git as a distributed version control system that tracks changes in any set of computer files	1.1 Create a repo - to put a project up on git, you will need to create a repository for it to live in. 1.2 Fork a repo - A fork is a new repository that shares code and visibility settings with the original "upstream" repository. 1.3 Contributing to projects - Learn how to contribute to a project through forking. 1.4 Communicating on git - You can discuss specific projects and changes, as well as broader ideas or team goals, using different types of discussions on git.

2. Identify and design a decentralised network	2.1 Gather data according to web5 needs
	2.2 Determine security and platform for decentralised network
	2.3 Document design plan for decentralised network
3. Implement decentralised network	3.1 Set up required platform according to design plan
	3.2 Initialise decentralised network solution according specifications
	3.3 Share content via decentralised network
	3.4 Debug and scale decentralised network
4. Maintain decentralised network	4.1 Test performance of decentralised network
	4.2 Determine and conduct maintenance tests

Foundation Skills

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

SKILL	DESCRIPTION
Learning	• 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
Reading	• Recognises and interprets technical, manufacturer and organisational documentation to determine and confirm job requirements
Writing	• Prepares documentation outlining maintenance schedule according to specified requirements
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
	• Uses systematic processes, setting goals, gathering required information and identifying and evaluating options against agreed criteria
Technology	• Demonstrates a sophisticated understanding of principles, concepts, language and practices associated with the digital world

Unit Mapping Information

No equivalent unit. New unit.

Links

https://git.com/TheSchoolofBitcoinCurriculum/21TSOBTC-Diploma-of-Applied-Bitcoin/blob/main/LICENSE

https://git.com/TheSchoolofBitcoinCurriculum/21TSOBTC-Diploma-of-Applied-Bitcoin/blob/main/Course%20Outline