



Introduction to Blockchain Technologies

Type	Online self-paced short course
Date	Available 01 Sept - 31 Dec 2021
Language	English
Certificate	Attendance certificate
Tuition fee	R2 000
Target audience	Beginners with no prior knowledge

1. Overview

This short course is designed as an introductory overview to Blockchain Technologies in the context of finance. A participant to this course will gain knowledge in the following aspects:

- Technical workings of a blockchain (theoretical level)
- The purpose and affordances of blockchain
- How Bitcoin fits into the system of money
- Legal implications and considerations of crypto assets
- Frequent topics of debate, e.g. electricity usage

2 Course duration and dates

This online course can be started at any convenient time from 01 September and should be completed by 31 December 2021.

3. Structure of lectures

The course is self-paced. Lectures are prerecorded. Candidates will also participate activities, some of which are periodically live, such as debates and Q&A sessions, and some of which are completed in own time, such as exercises and simulations.



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4. Syllabus

The course syllabus will be based on an e-book written by the course presenter, which covers the following topics:

1. TECHNICAL

- 1.1 Cryptography
- 1.2 Bitcoin Transactions
- 1.3 Blockchain Explorer
- 1.4 Wallets
- 1.5 Consensus Algorithms
- 1.5 Public vs Private Blockchains
- 1.7 Ethereum Smart Contracts
- 1.8 Tokenization
- 1.9 ICOs, STOs & NFTs

2. PHILOSOPHYCAL

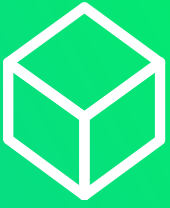
- 2.1 Definition of Trust
- 2.2 Role of Intermediaries in Trust System
- 2.3 How Blockchain Eliminates the Need for Trust

3. ECONOMICAL

- 3.1 History of Money
- 3.2 Functions to Qualify as Money
- 3.3 Qualification of Bitcoin as Money
- 3.4 How Bitcoin differs from other Money
- 3.5 Central Bank Digital Currencies (CBDCs)
- 3.6 Future Outlook of Bitcoin as Money

4. LEGAL

- 4.1 South African Timeline
- 4.2 Anti-Money Laundering (AML)
- 4.3 Know Your Customer (KYC)
- 4.4 Taxation
- 4.5 International comparisons



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5. Recommended literature

Participants will be provided with a copy of an e-book written by the course presenter, titled 'Introduction to Blockchain Technologies'. Slides based on this book will be presented during the lectures.

6. Assessment

This course will not be formally assessed. Attendance at all sessions and completion of all exercises and simulations will ensure a certificate of attendance.

7. Presenter

This course will be presented by Hamman Schoonwinkel, who is a CA(SA) and lecturer at Stellenbosch University. He recently completed the Global Master's in Blockchain Technologies, presented by Zigurat Innovation & Technology Business School.