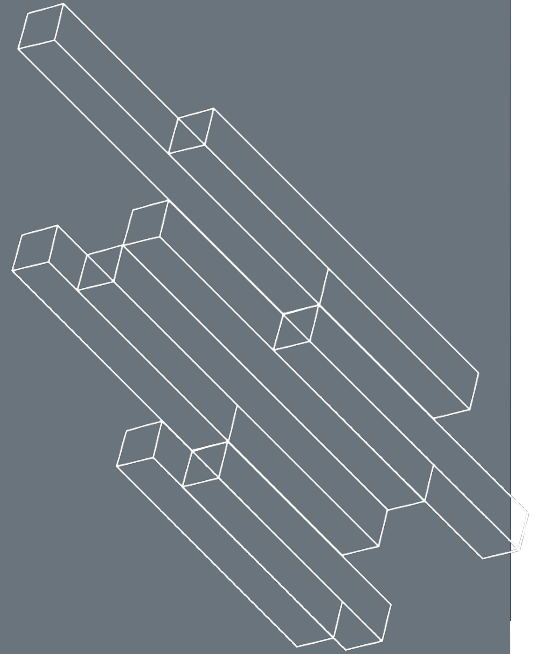


Blockchain and Cryptocurrency Training Executive Training

South African National
Blockchain Alliance
(SANBA)
2020



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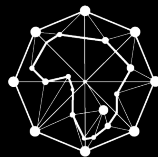
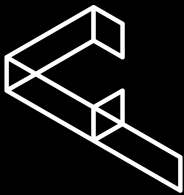
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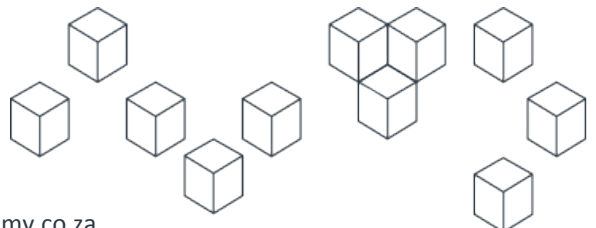


SANBA
South African National Blockchain Alliance



Blockchain Academy, SANBA and The Field Institute
Blockchain Executive Training 2020

e: info@blockchainacademy.co.za | w: www.blockchainacademy.co.za



Executive Blockchain Training

Blockchain technology is rapidly gaining traction, but the majority of senior executives (63%) still don't know what it is, according to a Global Blockchain Business Council survey reported in Cointelegraph.

The global blockchain market is expected to increase by 80% between 2018 and 2023, from \$1.2 billion to \$23.3 billion, according to ReportLinker.

The most significant advantage of blockchains distributed ledger is reduced operational cost and streamlined efficiency which provides transparency, reliability and authenticity.

Blockchain technology is undoubtedly here to stay and will change the face of business as we know it in the next few years.

With our training and consulting, the Blockchain Academy prepares both the private and public sector for this disruption.



REQUIREMENTS

- No prior knowledge of blockchain technology and cryptocurrencies is required



DURATION

- 1 April (09h00 - 11h30)
- 2 April (09h00 - 11h30)



TRAINING METHODOLOGY

- Online via GoToMeeting

TRAINING OUTCOME:

The outcome of this training is to provide attendees with a general overview of cryptocurrencies and blockchain technology.

The course provides a good foundational knowledge of how cryptocurrencies and blockchain technology work, what they can be used for and why they are viewed as being so innovative and disruptive.

The training provides an overview of some important use-cases for blockchain technology in the public sector.

The session will help attendees understand the importance of this technology in terms of building and using permissionless technology.

It will provide attendees with an insight into the future of this technology in terms of innovation and disruption of existing traditional systems and processes as well as how attendees can leverage the benefits of this technology in their own field of work.

Attendees will be exposed to case studies and the work of key experts in the field, which will help them to get an imagination for the way in which this technology can be applied not only in business but also in service delivery in the public sector.

This is not a comprehensive training session and attendees are encouraged to contact the Blockchain Academy for further consulting and training to expand on this knowledge.

Blockchain Academy, SANBA and The Field Institute

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Module 1

Blockchain: What and Why

- The evolution of money
- History of Bitcoin
- How financial systems and banking works
- Live bitcoin transaction demo

Discussion: Ledgers

Think about ledgers in your own industry. These can be financial ledgers, asset registries, event logs, timesheets etc.

Answer the following questions:

- Who writes to this ledger?
- Is this information duplicated?
- Does everyone who keeps a copy of the duplicated ledger trust each other (think about the transaction of Bank A → Bank B. Why did we need a central bank in the middle?)
- Is this ledger immutable? i.e Can a historic record be changed and what is the cost of doing that?

Discussion: Trust

- Think about trust in your daily life. Who do you trust when doing a EFT?
- Who do you trust when sending a meme via WhatsApp? How is the trust charged for? What will happen when the trust is broken?
- Who do you trust when buying something at Woolworths with cash?
And what do you trust those entities with?
(Question: How would this trust change if the SARB had a transparent monetary policy?)

Module 1 Continued

Blockchain: What and Why

- Define trust and value in your work. Where and why is this trust important? What do you achieve with this trust. How much does it cost you to generate this trust and what do you charge your customers for it?
How difficult is it for a competitor to duplicate this trust you provide?
- Now define the trust model of bitcoin. Think about the live transaction demo we did.

Module 2

Blockchain: How

- Basics of blockchain technology
- Decentralised trust, consensus and immutability
- Smart contracts
- Permissioned vs. permissionless networks

Discussion

- In your own words, name the strengths and weaknesses of blockchain technology
- What makes a blockchain unique from a normal database?
- What do you think the consequences are when trust is provided by a blockchain versus intermediaries?



Module 3 Use-Cases

Carel de Jager: 09:00-10:00am

Blockchain Academy

- Time stamping
- Payments, remittances and financial inclusion
- Digital currency/payments
- Insurance
- Transparency, audit and fraud reduction
- Digital assets and conveyancing

Speaker: Prof. Co-Pierre Georg: 10:00-10:20am

University of Cape Town

Blockchain in academic programmes and certification
– Registree

Speaker: Monica Singer: 10:20-10:40am

ConsenSys

Blockchain in the public sector – ConsenSys

- Voting and governance
- Land registraion
- Supplychain traceability

Speaker: Gugu Newman: 10:40-11:00am

Ribbon

- Blockchain in health

Speaker: Illana Melzer: 11:00-11:20am

71point4

The use of the blockchain in registering and recording property ownership



Module 3 Continued Use-Cases

Discussion 3

Can you use some of the existing applications within your industry? What would the benefits be?

Public sector benefits for example:

- Secure storage of government, citizen and business data
- Reduction of labor-intensive processes
- Reduction of excessive costs associated with managing accountability
- Reduced potential for corruption and abuse
- Increased trust in government and online civil systems

When do you think a blockchain would be an inappropriate solution?

Module 4 The Future

- The internet of money
- Decentralised Autonomous Organisations (DAOs)

Thought Experiment

Knowing the strengths and limitations of blockchain technology, how do you see the role of government changing in the short, medium and long term?

What steps should you take to ensure that you take full advantage of this?