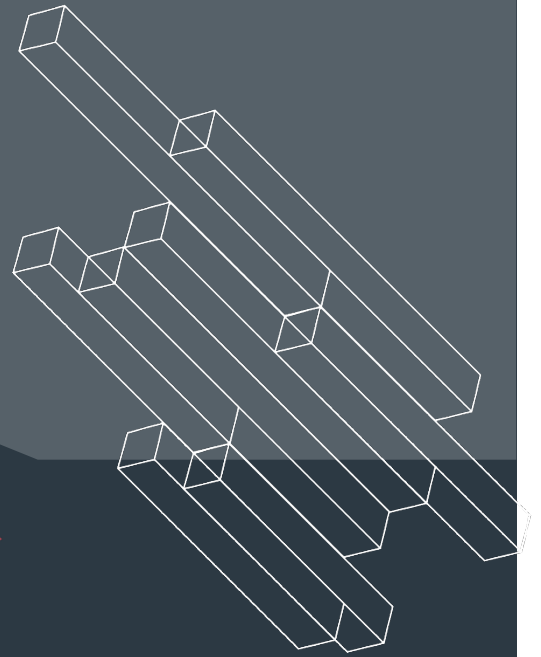


Bitcoin and Blockchain Beginner Course

Course Prospectus
2019



BLOCKCHAIN
ACADEMY

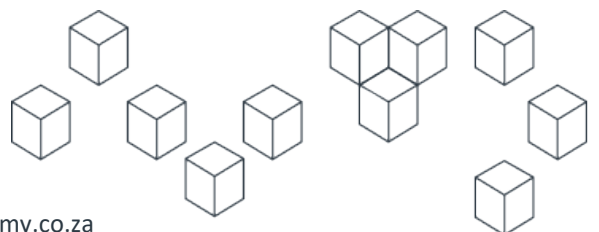
**BLOCKCHAIN AND
CRYPTOCURRENCY
TRAINING**

Blockchain Academy

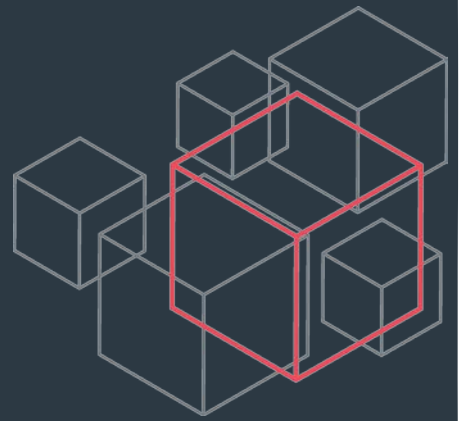
COURSE PROSPECTUS 2019

t: +27 (21) 409 7000

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



About the Blockchain Academy



The Blockchain Academy focuses on capacity building in the digital currencies and blockchain technology industry through specialised training and consulting.

Cryptocurrencies, Distributed Ledger Technology (DLT) and blockchain technology, represent a number of unique opportunities for improved transparency and efficiencies across multiple industries, including financial services, insurance, identity, healthcare and supply-chain.

We help organisations across sector and industry to fully understand the intricacies and value-proposition of the technology and how it might apply to their respective businesses. Our courses are tailored to meet

each organisations specific requirements and to help build the internal capacity required to make informed decisions. Our consulting team provide continued support to ensure that design, delivery and execution of the strategy and resulting product are held to the highest standard.

Whilst the Blockchain Academy is based in South Africa we have a global client base and our team have a vast amount of international industry experience and are regarded as thought leaders in this space.

Some of our clients include:

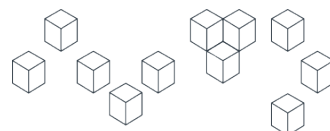


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Why is blockchain technology so important?

Blockchain technology removes the need for a centralised authority to verify trust. It creates a public ledger of all transactions, which are then traceable, transparent and leave no possibility of alteration, which in turn allows for stronger security, decreased risk and increased efficiencies.



Simpler and faster



Reduced costs



Increased trust



Tracking and transparency

The technology was initially developed to provide an alternative approach to payments by using cryptographic methods to provide a trust-mechanism between two transacting parties without the need for a trusted third party. Now, however, the high number of use cases for the technology is beginning to be realised and understanding this disruptive technology is becoming essential.

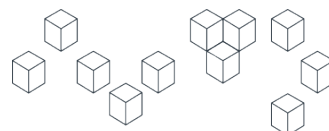
In the last 6 months investment into blockchain technology businesses has reached US\$1.5 billion, surpassing the full year total for 2017.

The world's largest financial institutions have publicly declared their interest in this

technology and have begun openly experimenting with it. Large technology and consulting firms such as IBM have entire business units now dedicated to blockchain.

Outside of the commercial use cases, blockchain technology also represents an opportunity to address humanitarian and philanthropic challenges such as identity and financial inclusion, which are all becoming increasingly more important to address.

We believe that blockchain technology represents the second generation of the Internet. It not only holds the potential to profoundly transform a multitude of industries, it has the potential to transform lives.



What services do we offer?



We offer bespoke training and consulting services from beginner levels to advanced levels of understanding on blockchain technology and cryptocurrencies as well as blockchain development.



Training



Consulting



Presentations



Development

Training

The academy provides training in various countries. Training in South Africa takes place at AlphaCode Club in Johannesburg and at the Bandwidth Barn in Cape Town, as well as at our clients offices in various cities.

Courses typically over one full day but can be lengthened on request.

Consulting

The academy provides a variety of consulting services such:

- blockchain development
- feasibility of using blockchain within an organisation
- assisting an organisations developers to build, deploy and test blockchain applications
- advising on the type of blockchain

technology that is best suited to an organisations requirements

- determining the relevant use-cases

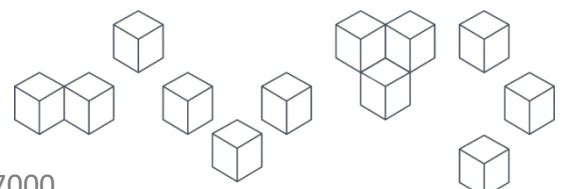
Presentations

The academy offers presentations to organisations on a variety of topics relating to blockchain and cryptocurrencies.

Development

The academy and its partners can assist organisations with their blockchain development projects on a variety of different types of blockchain technologies.

Equip yourself with the knowledge to evaluate the impact blockchain will have on your organisation's business model.



Bitcoin and Blockchain Beginner Course



Attendees will learn what bitcoin is, its history, how to use bitcoin: storing bitcoin in a wallet, buying and selling bitcoin on an online exchange, as well as sending and receiving bitcoin from one person to another without the need for a trusted third party. The course also provides an overview of the blockchain: how transactions are stored on the blockchain, how mining works through consensus, the differences between permissioned and permissionless blockchains and why these differences are important. The course explores current use cases and opportunities this technology provides in terms of include smart contracts, payment rails, immutable ledger, proof of ownership, remittances and micro-transactions and includes alternatives to bitcoin and the Bitcoin blockchain.

The course touches on current regulation and compliance globally and in South Africa.

WHO SHOULD ATTEND?

- The Bitcoin and Blockchain Beginner course is for individuals who are new to cryptocurrencies and blockchain technology
- Individuals who are interested to learn more about cryptocurrencies such as bitcoin and blockchain technology

COURSE OUTCOME:

The outcome of the Bitcoin and Blockchain Beginner course is to provide attendees with a general overview of bitcoin and the blockchain.

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 course helps attendees understand the importance of this technology in terms of building and using permissionless technology.

This course provides attendees with an insight into the future of this technology in terms of innovation and disruption of existing traditional systems and processes.



REQUIREMENTS

- No prior knowledge of Bitcoin and Blockchain is required



DURATION

- 1 day
- **09:00-14:30pm**
- Short tea/coffee breaks and light lunch



TRAINING METHODOLOGY

- Our training is instructor led in classroom style, though participants will be encouraged to engage throughout the course



VENUE

- Work In Progress Woodstock, **Cape Town**
- AlphaCode Club in Sandton, **Johannesburg**
- At our clients offices in various South African cities and African countries



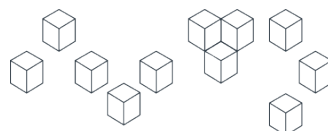
PRICE

R1,950.00 per person
Group discounts apply



WHAT'S INCLUDED?

- A Certificate of Completion





Module 1 Introduction

- Money and currency
- Digital currencies explained
- History of Bitcoin

Module 2 The Blockchain

- 101 of a blockchain
- How are transactions stored on a blockchain
- What Bitcoin mining is
- Permissioned and permissionless blockchains

Module 3 Using Bitcoin

- Where and how to get bitcoins
- How to store bitcoins in a wallet
- How to send and receive bitcoins
- How to trade bitcoins on a on-line exchanges
- Bitcoin pricing and volatility

Module 4 Bitcoin Security

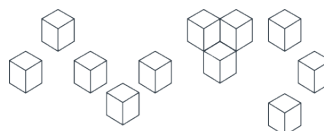
- Security issues and the pseudo-anonymity of Bitcoin
- Security measure such as multi-signature
- Transactions
- Backing up and restoring wallets

Module 5 Bitcoin Scalability, Risk and Limitations

- Transactions volumes and block sizes
- Block propagation speed
- Proof of Work efficiencies
- Mining pools and centralization
- Mining rewards and incentivization
- Bitcoin scaling proposals

Module 6 Use Cases and Opportunities

- Payment rails
- Immutable ledger
- Coloured coins and digital asset ownership
- Time-stamped records
- Proof of ownership
- Micro-transactions





Module 7 Merchant Acceptance

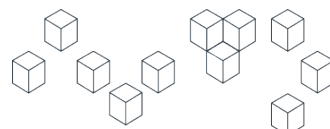
- How to integrate bitcoin as a payment method
- Benefits of using bitcoin as a payment method
- Payment processing companies
- Verification of transactions on the blockchain
- Successful case studies

Module 8 Bitcoin Compliance and Regulation

- Regulation globally
- Bitcoin compliance
- Money laundering and fraud

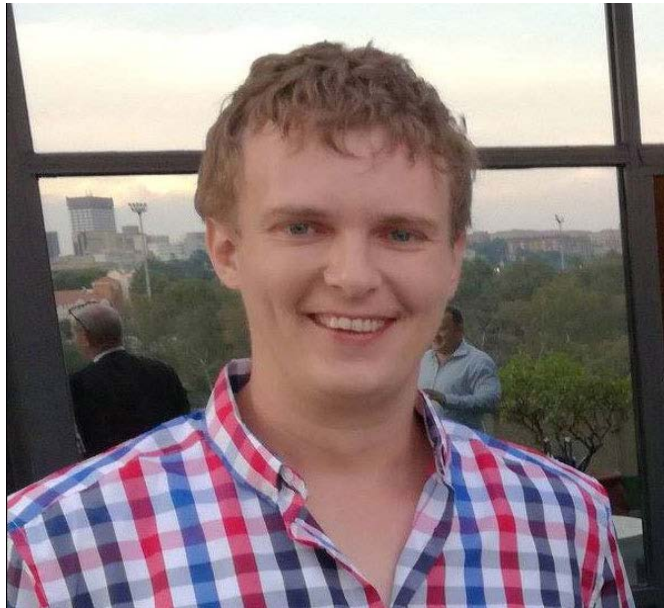
Module 9 The Future of Blockchain

- Smart contracts
- Bitcoin for remittances in emerging economies
- Innovation for financial institutions
- Innovation for non-financial institutions
- The value of bitcoin and the blockchain as a technology
- Alternatives to bitcoin and the blockchain





Carel de Jager



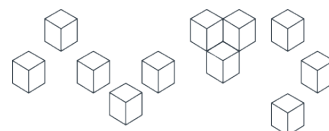
Carel is one of the lead instructors at the Blockchain Academy. He has been an active investor and crypto miner since 2013.

Carel has provided training for the Central Bank of the Sultanate of Oman and other financial institutions and for corporate clients in South Africa since 2017. Carel is a regular speaker at blockchain related events and conferences in South Africa and contributes articles to several news publications. He has been invited to speak on SAB1 TV on the Real Talk with Anele show and the Daily Theta show.

Being an engineer, his investment interest soon developed to a fascination and passion for the underlying technology that forms the Blockchain. He is a firm believer that the blockchain is the next step of financial evolution which will revolutionize the way we transact.

 <https://twitter.com/BlockchainJag>

 <https://www.linkedin.com/in/careldejager/>





Gavin Marshall

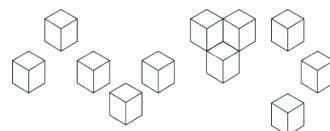


Gavin is a well-known speaker on cryptocurrencies and blockchain technology in South Africa. Gavin has built his own bitcoin and blockchain crowd funding platform, called ShareBit.

He has worked as the Head of Innovation at the mobile social network Mxit and as Product Development Lead at the Nigerian e-commerce company, Konga..

 <https://twitter.com/nuwrlndf8r>

 <https://www.linkedin.com/in/gavin-marshall-a6936312>



Payment

Please make payment one week before course commences to:

Blockchain Academy Pty Ltd

Bank: Standard Bank

Account No: 072612193

Branch: Claremont

Branch Code: 051001

Please send proof of payment to:

info@blockchainacademy.co.za

Students receive 35% discount on all our courses.

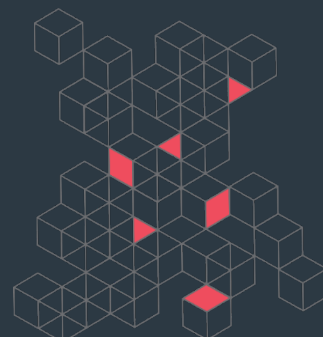
Group Bookings

We offer private training sessions for groups of 8 or more individuals, onsite at your offices or at our training facilities in Johannesburg and Cape Town.



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**BLOCKCHAIN AND
CRYPTOCURRENCY
TRAINING**



Contact Us

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Cape Town, 7925



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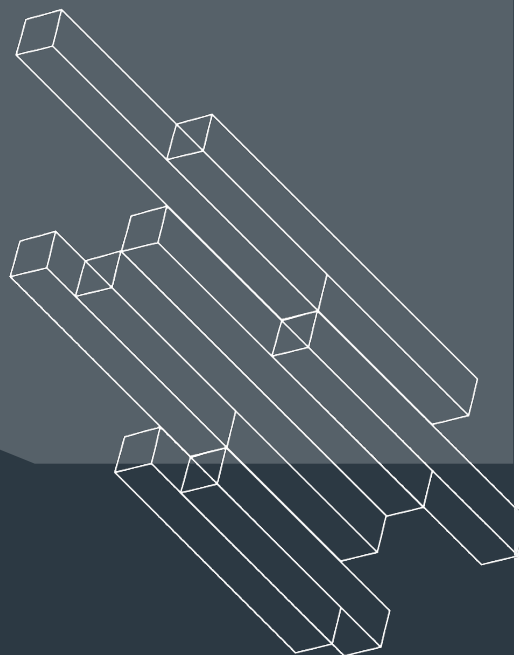
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