



UNIVERSITY  
OF  
JOHANNESBURG

DEPARTMENT OF  
ACCOUNTANCY

# BLOCKCHAIN TECHNOLOGY FOR ACCOUNTANTS

EMBRACING BLOCKCHAIN AND THE  
INTERNET OF VALUE IN THE 21<sup>ST</sup> CENTURY



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# BLOCKCHAIN TECHNOLOGY FOR ACCOUNTANTS

**Cost: R4 150**

**Duration: 8 weeks**

Register and start the course at a convenient time

## INTRODUCTION

Following the financial crisis of 2008, a white paper with the two major words “block” and “chain” was released by Satoshi Nakamoto. This signalled the evolution of trust revolution and e-commerce through the introduction of Bitcoin Blockchain developed in 2009 by Satoshi Nakamoto. Today, the Distributed Ledger Technologies upon which Blockchain is based may be applied in both service and manufacturing sectors in response to the demands of the Fourth Industrial Revolution (4IR). This course examined the characteristics and the key components of Blockchain Technology as well as its benefits to the accounting, finance, banking and other sectors in an economy.

## COURSE TOPICS

The following topics are covered in this Blockchain Technology course:

- ④ Introduction to Blockchain Technology
- ④ The development of Blockchain Technology
- ④ Cryptography and Hash Function
- ④ Distributed Ledger Technologies
- ④ Public and Private Blockchain
- ④ The concept of Tokens
- ④ Smart contracts and DApps
- ④ Blockchain and Accounting Practice
- ④ Blockchain Technology in key industries

## HOW ARE THESE TOPICS ADDRESSED WITHIN THE COURSE?

The first topic provides background information on Blockchain Technology and examines the role of the Accounting Blockchain Coalition in defining market practices in accounting, auditing and tax for digital assets and distributed ledger technologies, including blockchain.

The next six topics focus on the technical aspects of Blockchain Technology as they deal with Cryptography, Hash functions, Tokens and other key elements of Blockchain Technology. These are carefully explained in terms of the Private and Public Blockchain and its applications to Smart contracts and DApps and other Distributed Ledger Technologies. A brief overview of the application of Blockchain Technology in key industries is also presented.

Finally, the topic on Blockchain and Accounting Practice examines various suggestions on how transactions in the Blockchain Technology enabled environment could be treated in Accounting and the expected regulatory roles from standard setters and regulators on accounting, auditing and taxation with reference to Blockchain Technology and other Distributed Ledger Technologies.

## HOW IS THE COURSE STRUCTURED?

Each unit comprises of various video content that you are required to view. Furthermore, as part of each unit, there are additional resources that you will need to explore. These include research articles, websites and videos. These resources add to the discourse for each topic covered. The course also includes a focused discussion area where specific questions are raised on the various topics. Throughout each module, you will be prompted to use this discussion area to learn from other students.

## WHAT IS THE EXPECTED DURATION OF THE COURSE?

The course duration is 8 weeks from the date of registration to completion. It will take approximately 40 hours to complete. At the end of each unit you will be required to complete a quiz as well as an overall quiz at the end of the course. These quizzes will count toward a final grade. You will be awarded a certificate upon successful completion. Remember, this course is competency based. Since the course is 100% online, you have maximum flexibility and can start the course at any point in time.

## ADMISSION REQUIREMENTS

The course is offered to all members of the South African Institute of Chartered Accountants (SAICA). You will be required to upload proof of this qualification.

## HOW TO APPLY:

**NEW STUDENTS** [click here](#) (enter the token “SAICA” to apply for the correct course)

If you are a **CURRENT UJ STUDENT OR ALUMNI** [login to Ulink](#) then:

- 1 Click on iEnabler registration;
- 2 Select academic/residence application;
- 3 Unhide academic applications;
- 4 Click on “add new academic application” and
- 5 Enter the qualification code “SAICA” and follow the instructions to register.

For **UJ ALUMNI STUDENTS** [open iEnabler](#) then

- 1 Select academic/residence application;
- 2 Unhide academic applications;
- 3 Click on “add new academic application” and
- 4 Enter the qualification code “SAICA” and
- 5 Create a pin via one of the buttons or the call centre.

PLEASE DIRECT ANY ENQUIRIES TO: [accounting4IR@uj.ac.za](mailto:accounting4IR@uj.ac.za)

## REASONS TO ENROLL IN A UJ ONLINE PROGRAMME

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