

# Postgraduate Certificate Corporate Blockchain



## Postgraduate Certificate Corporate Blockchain

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/us/information-technology/postgraduate-certificate/corporate-blockchain](http://www.techtitute.com/us/information-technology/postgraduate-certificate/corporate-blockchain)

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# 01

# Introduction

While it is true that Blockchain technology is on everyone's lips lately, its possibilities for the business sector are not far behind. The benefits in terms of the immutability in the history of their records, as well as the traceability of the same and the security that this provides, means that no intermediaries are needed in the procedures that are carried out in it. Due to these characteristics, its use will undoubtedly increase as the years go by. Considering this growth, TECH and its team have developed this 100% online program for all those computer specialists who want to take a step towards specialization in the field of Corporate Blockchain. The course will cover topics such as document certification, centralized and decentralized databases, practical business use cases and many other interesting subjects. All of this in only 6 weeks and with a completely online learning methodology.



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*In only 150 hours, you will master all the concepts related to the Blockchain and its applicability in the corporate finance field”*

Blockchain could be commonly defined as a kind of digital ledger, distributed and incorruptible, where it is possible to record anything that may have value. After becoming independent as its own technology back in 2014, its use and fame has been increasing year by year. More and more people and even companies are starting to use it, taking into account the speed in the procedures, the transparency and the low costs of it. Also, behind this technology are those professionals who created it, who wove that intangible network of data and processes from which today people and companies can benefit. Since the Blockchain has an increasingly practical approach in all kinds of business fields, professionals with specialized knowledge in this area are in high demand, being able to work in areas ranging from banking to advanced data transfer.

Looking precisely to offer a deepening in this area, TECH has created a program focused on covering each and every internal factors of the Corporate Blockchain. Starting from the base where topics such as the different specialized platforms for companies and the use cases of the Blockchain within them are addressed, as well as the possible risks of using this technology in banking or retail. Without a doubt, all the teaching material used by TECH and its team of professionals will provide Computer Specialists with the necessary skills to expand their horizons within a booming sector.

For this purpose, they will have 150 hours of the best audiovisual, theoretical and practical material, as well as numerous self-assessment exams, all in a 100% online teaching format and characterized by the Relearning method. Graduates will learn through the repetition of keywords, contents and concepts, making this a process adaptable to the professional and personal needs of the enrolled students to turn them into referents in the present and future of Web3.

This **Postgraduate Certificate in Corporate Blockchain** contains the most complete and up-to-date program on the market. The most important features include:

- ◆ The development of case studies presented by digital business and IT experts
- ◆ The graphic, schematic, and practical contents with which they are created, provide practical information on the disciplines that are essential for professional practice
- ◆ Practical exercises where self-assessment can be used to improve learning
- ◆ Its special emphasis on innovative methodologies
- ◆ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ◆ Content that is accessible from any fixed or portable device with an Internet connection



*Get a hold of in your professional specialization and head towards a new horizon of possibilities with this Postgraduate Certificate in Corporate Blockchain"*



*Enroll now and start delving into the digitization and certification of the blockchain, applying the practical methodology to your field of work"*

*Become an IT expert in Blockchain thanks to the Hyperledger knowledge you will acquire in this program.*

*Don't miss the opportunity to become an IT specialist in a booming sector.*

The program's teaching staff includes professionals from the sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.



# 02 Objectives

The crypto-economy is the perfect sector for IT professionals looking for new challenges with which you can grow and develop as a specialist. This, added to the enormous development that is taking place, produces that the demand for qualified professionals is almost daily. With the purpose of providing all the tools and skills in Blockchain such as Corda, Quorum, Hyperledger and all the contents that may be related to the use of these, TECH has created this program in favor of those who intend to be versed in this branch of the digital economy of the 21st century.





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*Enroll in this Diploma to learn about the risks that may also exist in the use of blockchain in Retail, Banking and Public sectors"*



## General Objectives

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- ◆ Master the different platform types, features and voting processes that exist on the Blockchain
- ◆ Control and master the aspects related to the Hyperledger
- ◆ Learn about the certification of documents using Blockchain





## Specific Objectives

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- ◆ Understand the operation and applicability of Blockchain systems in different business scenarios
- ◆ Get to know the existing traceability in Blockchain and the immutability in it



*A Syllabus with which you will delve your knowledge of the Corporate Blockchain, and the keys to its current implementation and use"*

03

# Course Management

For the management of this Postgraduate Certificate, TECH has selected a team of professors versed and experienced in the area of cryptoeconomics related to blockchain and the way in which both converge to offer the best services to the companies that operate in them. For this purpose, it is a qualified teaching group to offer the latest and most innovative content, as well as the most detailed tutoring and monitoring for those computer specialists who want to grow in the crypto world.





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*Developing a syllabus with qualified professionals who are committed to the future of their students is key to providing quality education"*

## Management



### Dr. Gil de la Guardia, Alberto

- ♦ Crypto world educator and lecturer
- ♦ Founding member of Le Crypto Club
- ♦ Co-director of several university programs related to Blockchain Technology and the Crypto world
- ♦ Doctorate in International Public Law at the Complutense University of Madrid
- ♦ Degree in Law from the University of Salamanca
- ♦ Master's Degree in Financial Studies from San Pablo CEU University
- ♦ Master's Degree in Blockchain Technology and Bitcoin from the European University of Madrid

## Professors

### Mr. Martín Arenas, Carlos

- ♦ Current position: Blockchain Developer in Transfesa Logistics
- ♦ Blockchain consultant and developer, specialized in the deployment and operation of private Blockchain on the Hyper Ledger Fabric framework
- ♦ Developer of algorithmic trading processes for cryptocurrencies
- ♦ Founding partner of ADNBLOCK
- ♦ Development of applications in Mainframe environments dedicated to the banking sector
- ♦ Superior Technician in Computer Applications Development by Joyfe College
- ♦ Expert in Bitcoin and Blockchain programming by UEM

### Mr. Martín Arenas, Daniel

- ♦ Current position: Blockchain Developer at Dimática / Nexple
- ♦ Founding partner of ADNBLOCK
- ♦ Blockchain consultant and developer, specialized in the deployment and operation of private Blockchain on the Hyper Ledger Fabric framework
- ♦ Chaincode Developer
- ♦ Superior Technician in Computer Applications Development by Joyfe College.
- ♦ Master's Degree in Blockchain Technology and Bitcoin from the European University of Madrid
- ♦ Professional Certificate in Software Development from the IES Melchor Gaspar de Jovellanos High School



# 04

## Structure and Content

For this Postgraduate Certificate in Corporate Blockchain, TECH has developed a syllabus whose basis is the *Relearning* method, with which students will be able to assimilate the practical, audiovisual and theoretical contents gradually and without having to give up part of their professional or personal life in the process. This way of learning facilitates the correct learning of the contents and the durability of these concepts.





“

*The Blockchain is growing by leaps and bounds in terms of use and utilities. Specialize with this Postgraduate Certificate to be part of the future of the digital economy”*

## Module 1. Corporate Blockchain

- 1.1. Platform Types, Characteristics and Voting Process
  - 1.1.1. Consensual Blockchain
  - 1.1.2. Participatory Blockchain
  - 1.1.3. Democratic Blockchain
- 1.2. Hyperledger, Corporate Blockchain Platform
  - 1.2.1. Hyperledger Ecosystem
  - 1.2.2. Hyperledger Fabric
  - 1.2.3. Community. Hyperledger Labs
- 1.3. Corporate Case Studies
  - 1.3.1. Blockchain in the Company
  - 1.3.2. Blockchain-Based Consortia and Joint Ventures
  - 1.3.3. Production Case Studies
- 1.4. Traceability
  - 1.4.1. Blockchain Traceability
  - 1.4.2. Immutability and GDPR Conflict
  - 1.4.3. Legal Validity
- 1.5. Document Certification
  - 1.5.1. Digitalization and Blockchain
  - 1.5.2. Blockchain Certification
  - 1.5.3. IPFS
- 1.6. Blockchain + IOT
  - 1.6.1. Synergy between Technologies
  - 1.6.2. Blockchain + IoT Applications in the Pharmaceutical Industry
  - 1.6.3. Blockchain + IoT Applications in Supply Chain
- 1.7. Other Corporate Blockchain
  - 1.7.1. Corda
  - 1.7.2. Quorum
  - 1.7.3. Hyperledger Besu
  - 1.7.4. Blockchain as a Service



- 1.8. Risks: Case Studies by Sector
  - 1.8.1. Blockchain in Banking
  - 1.8.2. Blockchain in Retail
  - 1.8.3. Blockchain in the Public Sector
- 1.9. Private Network Consensus
  - 1.9.1. BFT/IBFT
  - 1.9.2. Raft
  - 1.9.3. Granpa (Polkadot/Substrate)
- 1.10. Blockchain vs. Centralized Databases vs. Decentralized Databases
  - 1.10.1. Differences
  - 1.10.2. Similarities
  - 1.10.3. The Best Technological Alternative Choice



*Start developing your professional specialization towards a future marked by Web3 thanks to this Postgraduate Certificated"*

# 05 Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.



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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

“

*At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world”*



*You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.*



*The student will learn to solve complex situations in real business environments through collaborative activities and real cases.*

### A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and professional reality is taken into account.

**“** *Our program prepares you to face new challenges in uncertain environments and achieve success in your career”*

The case method has been the most widely used learning system among the world's leading Information Technology schools for as long as they have existed. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question that you are presented with in the case method, an action-oriented learning method. Throughout the course, students will be presented with multiple real cases. They will have to combine all their knowledge and research, and argue and defend their ideas and decisions.

## Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

*In 2019, we obtained the best learning results of all online universities in the world.*

At TECH you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our university is the only one in the world authorized to employ this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.





In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

This methodology has trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, and financial markets and instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

*Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.*

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.



This program offers the best educational material, prepared with professionals in mind:



### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



### Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



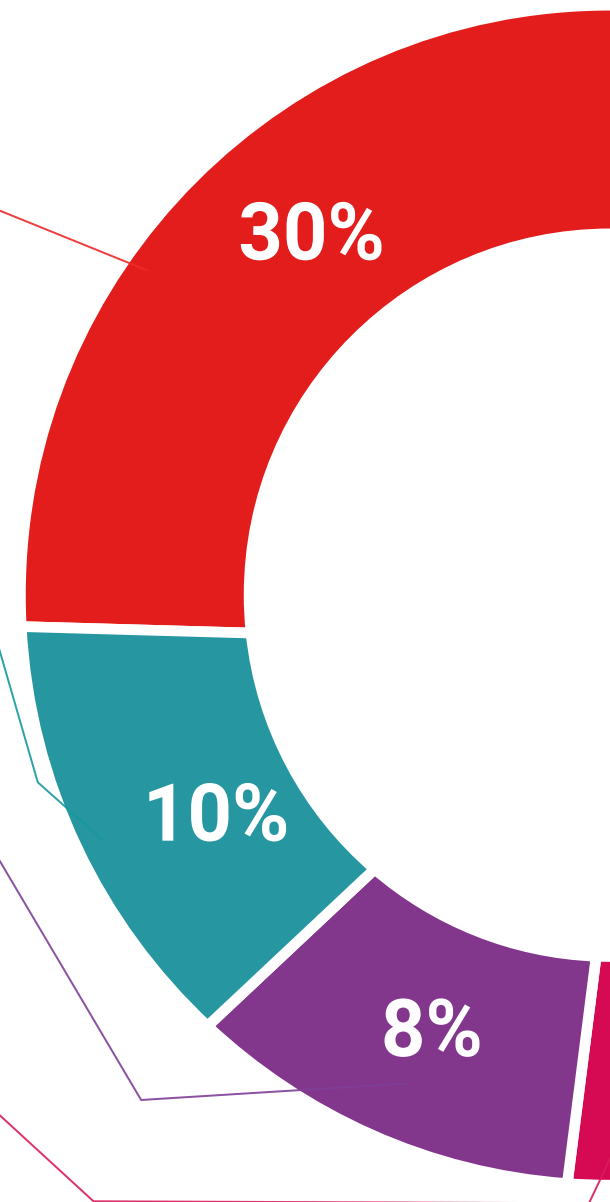
### Practising Skills and Abilities

They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





#### Case Studies

Students will complete a selection of the best case studies chosen specifically for this program. Cases that are presented, analyzed, and supervised by the best specialists in the world.



#### Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



06

# Certificate

The Postgraduate Certificate in Corporate Blockchain guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”*

This **Postgraduate Certificate in Corporate Blockchain** contains the most complete and up-to-date program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Corporate Blockchain**

Official N° of Hours: **150 h.**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.

future

health confidence people

education information tutors

guarantee accreditation teaching

institutions technology learning

community commitment

personalized service innovation

knowledge present quality

development languages

virtual classroom

**tech** technological  
university

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