

Certified Blockchain Professional®

Duration: 5 Days

Prerequisites:

To attend the 5-days course and be able to integrate Blockchain functionalities into business operations, commercial applications, or open-source peer-to-peer transactions you need some technical experience, skills and/or qualifications as follows:

- Basic Understanding of Cryptocurrencies (Preferred)

Blockchain developers thoroughly understand how bitcoins and ethers work, and most of them have already mastered the basics and fundamentals of cryptocurrencies. For C|BP course students it is advisable to have some Blockchain programming foundations already. This includes understanding of how a blockchain serves as the backbone that powers digital currencies.

- Basic Exposure in Programming Languages (Required)

Blockchain's APIs support six programming languages (Python, Django, C++, HTML, JavaScript, Node) so if you're planning to attend C|BP training you will need to be proficient at least in one with which you will be able to integrate Blockchain's services. While Blockchain developers are proficient in the language they select for their project, Blockchain aspiring Professionals need to have at least an overview of the blockchain supporting languages to smoothly decide which one to pick to integrate Blockchain functionalities with the rest of their applications.

- Experience with Bitcoin and Ether (Preferred)

Understanding the theory behind cryptocurrencies may be useful, but actual experience in transacting with these currencies allows you to introduce better, more innovative and more user friendly blockchain powered solutions. By having actual experience in blockchain's most popular implementation, Bitcoin and Ether, you will be able to better understand the needs of the organization and provide suitable solutions that are in line with business architecture and business objectives.

Course Objective:

- Master the theoretical and technical foundations of blockchain technology
- Understand the concept of decentralization, its impact, and its relationship with blockchain technology
- Understand the underlying technical principles of blockchain development and implementation.
- Understand the blockchain technology mechanisms behind Bitcoin and other cryptocurrencies
- Understand how cryptography is used to secure data with practical examples
- Understand theoretical foundations of smart contracts and how Ethereum blockchain is used to develop decentralized applications using Solidity and relevant development frameworks
- Investigate alternative blockchain solutions including Hyperledger, Corda, and many more
- Discover use cases of blockchain powered applications in various industries
- Explore blockchain implementation and commercialization strategies
- Learn best practices for blockchain integration in current business architectures
- Identify possible blockchain implementation implications on legal aspects
- Predict adoption risks and failures from application strategies and learn how to avoid with effective change management and project management approaches.
- Identify new research topics and future scope of blockchain technology

Course Description:

To support the growing demand for skilled Blockchain professionals, IIB Council, introduces the Certified Blockchain Professional (C|BP) Training and Certification Program for Developers and Business Technology Professionals. The course aims to bring practitioners up to speed with the industry requirements while forming the global standards in the Blockchain Industry, one of the fastest growing disciplines.

Target Audience:

Business Tech Executives

For decision makers (unit leaders, growth executives and technology innovators) interested in leading blockchain based projects.

Government Tech Officials

For policy makers (government officials, regulators and compliance officers) assigned with Blockchain related cases.

Full Stack Developers

For technology makers (developers, programmers, coders) equipped with the basic understanding of programming languages and technical knowledge to deep dive into blockchain development, strategy and implementation

Course Outlines:

Day 1

- Introduction: blockchain technology
- Crypto assets
- Blockchain mining

Day 2

- Bitcoin
- Sustainable blockchain
- Open-source business blockchain frameworks
- Hyperledger

Day 3

- Ethereum
- Decentralized applications (DApps)
- AI and Blockchain

Day 4

- Impact on industry
- Industry use cases
- IOT and blockchain
- Blockchain project implementation

Day 5

- Blockchain project implementation (cont....)
- Scalable Blockchain
- Security in blockchain (Secure Blockchain)
- Blockchain as a service (BAAs)
- Open research problems in blockchain

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