

The logo for EC-Council, featuring the text "EC-Council" in a bold, white, sans-serif font. The background of the entire page is a dark blue with a grid of binary code (0s and 1s) and several glowing cyan lines that intersect to form a large, stylized arrow pointing downwards and to the right. In the bottom right corner, there is a cluster of 3D cubes, some of which are blue and some are white with binary code on their faces.

EC-COUNCIL'S **BLOCKCHAIN** CERTIFICATION COURSES

For:

**BUSINESS LEADER
FINTECH PROFESSIONAL
DEVELOPER**

Designed by

Professionals for Professionals

Dive into an industry predicted to be worth USD 163.83 billion by 2029.[1]

What is Blockchain?

The popularity of blockchain has skyrocketed recently due to the technology's potential for increased efficiency, security, and transparency. But what is it?

A blockchain is a distributed ledger of data in which information is replicated across multiple nodes. Each "block" is a time-stamped, unchangeable data record managed by a cluster of computers and not owned by a single entity. These blocks of data are secured and bound to one another—the "chain"—using cryptography. In a decentralized blockchain, this enables immutable, permanent, transparent, and secure record-keeping of transactions.

One of the most exciting aspects of decentralized blockchain networks is the lack of a central authority, which means that the blockchain acts as a self-regulating data storage and transaction validation system. Since a blockchain is a shared and unchangeable ledger, the information stored there is permanently and publicly viewable. Decentralized blockchain networks enable the transfer of cryptocurrencies like Bitcoin across the globe, among many other innovative use cases.



Why Should You Become a Certified Blockchain Expert?

1

Blockchain Market

According to Research and Markets, the blockchain market is estimated to grow from USD 4.9 billion in 2021 to USD 227 billion by 2028—a compound annual growth rate of 72.9%.^[2]

2

Business Growth

Gartner estimates that the business value generated by blockchain will reach USD 176 billion by 2025 and USD 3 trillion by 2030.^[3]

3

Implementation of Central Bank Digital Currencies

According to Kristalina Georgieva, managing director of the International Monetary Fund, 100 countries are exploring the implementation of central bank digital currencies.^[4]

4

Fintech Blockchain Growth

According to Research and Markets, the global market for fintech blockchain is estimated to reach USD 8.7 billion by 2026.^[5]

5

Blockchain Growth Market Driven by Business Leaders

In a Deloitte survey, over three-quarters of financial services industry leaders felt that failing to adopt blockchain and digital assets would represent a lost opportunity for competitive advantage, and 84% agreed that blockchain was “broadly scalable” and had “achieved mainstream adoption.”^[6]

[2]: <https://www.researchandmarkets.com/reports/4787409/blockchain-market-forecast-to-2028-covid-19?>

[3]: <https://emtemp.gcom.cloud/ngw/globalassets/en/doc/documents/3855708-digital-disruption-profile-blockchains-radical-promise-spans-business-and-society.pdf>

[4]: <https://www.imf.org/en/News/Articles/2022/02/09/sp020922-the-future-of-money-gearing-up-for-central-bank-digital-currency>

[5]: <https://www.researchandmarkets.com/reports/5302634/fintech-blockchain-global-market-trajectory-and>

[6]: https://www2.deloitte.com/content/dam/insights/articles/US144337_Blockchain-survey/DI_Blockchain-survey.pdf

Blockchain Is More Than Just Cryptocurrency

Ten Industries Blockchain Is Transforming^[7]

1. Banking and financial services

2. Energy and infrastructure

3. Travel and transportation

4. Insurance

5. Government and voting

6. Healthcare

7. Defense and law enforcement

8. Retail and e-commerce

9. Communications and information

10. Agriculture and food safety

[7] <https://www.cbinsights.com/research/industries-disrupted-blockchain/>

EC-Council's Blockchain Certifications and Training

Program Overview

EC-Council's blockchain certification courses are curated by experts to support the growing demand for skilled blockchain professionals. These programs have been designed to meet the industry requirements of developers, business leaders, and fintech professionals in this rapidly growing area.

Our blockchain certification courses consist of three knowledge and competency areas: development, implementation, and strategy. During the course, students get exposure to multiple blockchain implementation concepts and a unique guideline for sustainable and scalable blockchain development using quantum-resistant ledgers. Considering the market opportunity and skills required for different target groups, EC-Council has launched three new blockchain programs:

1. **Blockchain Business Leader Certification (BBLC)**
2. **Blockchain Fintech Certification (BFC)**
3. **Blockchain Developer Certification (BDC)**

Blockchain technology is becoming more prominent in today's digital world, and getting certified is a great way to showcase your knowledge and lend credibility to your resume. If you're looking for a blockchain training program, you've come to the right place. EC-Council's expert-designed courses will provide you with hands-on experience and help you gain valuable insights that are mapped to real job roles.

Blockchain Business Leader Certification



Become a Business Leader Spearheading the Blockchain Revolution

Blockchain Business Leader Certification (BBLC) Overview

The BBLC course aims to teach business leaders how to use blockchain technology to improve business operations by equipping them with technical knowledge and hands-on experience with blockchain technologies. The curriculum covers Ethereum and Bitcoin in detail, in addition to issues such as blockchain security and Blockchain as a Service (BaaS).

Who Is It For?

Business leaders at all levels, from mid-level managers to senior executives who want to incorporate blockchain technology into their organization.

Prerequisites

Candidates must have:

- General awareness of business management processes
- Basic knowledge of computers
- Access to a Linux machine that can be configured as a virtual machine

COURSE OUTLINE

Module 1: **Introduction**

Module 2: **Financial Applications**

Module 3: **Cryptocurrency Assets**

Module 4: **Blockchain Project Implementation**

Module 5: **Bitcoin**

Module 6: **Blockchain as a Service (BaaS)**

Module 7: **Security in Blockchains**

Module 8: **Ethereum**

Module 9: **Open Source**

Module 10: **Decentralized Apps (dApps)**

Module 11: **Scalable Blockchain**

Module 12: **Industry Use Cases**

Module 13: **The Internet of Things and Blockchain**



What You'll Learn

- The structure and elements of a blockchain network, including how decentralization works
- Hashing and consensus algorithms and their role in blockchain networks, including proof-of-work (PoW) and proof-of-stake (PoS) consensus mechanisms
- Digital currencies, including different types of cryptocurrency assets, the tokenization process, and how leading cryptocurrencies (e.g., Bitcoin, Altcoin, Litecoin, Zcash) work
- The benefits of using blockchain technology and how to determine whether blockchain is the right solution for your business
- Initial coin offerings (ICOs) vs. initial public offerings (IPOs)
- Securitization of physical assets
- Blockchain scalability issues and how to resolve them
- How to design blockchain-based identity solutions
- Blockchain use cases in supply chain management, energy, shipping, healthcare, and decentralized storage platforms
- The basics of how Solidity and Ethereum work and the elements of the Ethereum ecosystem
- How to create private blockchain networks using Ethereum
- The structure and components of the Bitcoin network and how it works
- Bitcoin cryptomining and its relation to PoW consensus mechanisms
- Bitcoin's limitations, variants, and clients
- How to build secure smart contracts, including vulnerabilities in smart contracts and how to mitigate them
- Formal verification of smart contracts
- Privacy and confidentiality in blockchains
- Blockchain as a Service
- Permissioned and permissionless blockchains
- The basics of the Hyperledger Fabric framework
- Introduction to blockchain projects (including Fabric, Iroha, Burrow, and Indy)
- Decentralized autonomous organizations (DAOs)

Benefits of the Blockchain Business Leader Certification

- The BBLC program gives a comprehensive look into the inner workings of blockchain technology and how it applies to multiple industries like healthcare, the food supply chain, shipping, and more.
- The course is replete with assignments and alternative testing methods to keep students engaged in topics beyond the program.
- The curriculum is designed and endorsed by bestselling authors and subject matter experts in the blockchain field.
- The program offers practical advice on how and when to use blockchain in any industry.
- Our beginner-friendly course does not require any technical prerequisite knowledge of blockchain or cryptocurrencies.

Job Roles

Blockchain Project Lead

Blockchain Project Manager



Blockchain Architect

Blockchain Consultant

Why Should You Choose EC-Council's Blockchain Certification Course?

EC-Council introduced the blockchain certification courses to set global standards in blockchain technology.

1. Contextual Training and Global Application

In today's consumer-centric and data-driven, peer-to-peer economic ecosystem, we strive to help business professionals obtain relevant and practical digital skills to facilitate global corporate growth. EC-Council's blockchain certifications were developed to help aspiring blockchain professionals learn this emerging technology and understand its implications for businesses. They focus on equipping students with the knowledge to take advantage of blockchain technology. Our blockchain certification courses dig deep into the main characteristics of distributed ledger technology and introduce the 3S (Secure, Scalable, Sustainable) proprietary blockchain framework.

2. Key Highlights of EC-Council's Blockchain Certification Programs

- Development-ecosystem agnostic
- Network agnostic
- Technology agnostic
- Worldwide recognition
- 360-degree approach
- Hands-on training
- International standards

3. Career Growth: Blockchain Certification Courses

The average annual income in the U.S. for a blockchain developer is \$136,000, followed by \$87,500 annually in Asia and \$73,300 annually in Europe. Remote blockchain developers earn \$123,750 annually on average. [7]

[7]: <https://cryptocurrencyjobs.co/salaries/blockchain-developer/>



EC-Council's Blockchain Certification Training Information

DELIVERY MODES



Self-Paced
Recorded Videos



Self-Study
Through e-books



Live Online
Classes



Training Partner
In Person

ABOUT THE BLOCKCHAIN EXAM

Number of Questions
50

Test Duration
1.5 Hrs

Test Format
Multiple Choice

Test Delivery
ECC Exam

EXAM PREFIX FOR

Blockchain Developer Certification: **312-81**
 Blockchain Business Leader Certification: **312-83**
 Blockchain Fintech Certification: **312-82**

TRAINING

Blockchain Developer Certification: **5 Days**
 Blockchain Business Leader Certification: **3 Days**
 Blockchain Fintech Certification: **3 Days**

EC-Council's sole purpose is to build and refine the cybersecurity profession globally. We help individuals, organizations, educators, and governments address global workforce problems by developing and curating world-class cybersecurity education programs and corresponding certifications and by providing cybersecurity services to some of the largest businesses globally. Trusted by seven of the Fortune 10, 47 of the Fortune 100, the Department of Defense (DoD), Intelligence Community, NATO, and over 2,000 of the best universities, colleges, and training companies, our programs exist in over 140 countries and set the bar in cybersecurity education. Best known for the Certified Ethical Hacker (C|EH) program, we are dedicated to equipping cybersecurity professionals with the knowledge, skills, and abilities required to fight and win against adversaries. EC-Council builds cyber capabilities through the C|EH and a variety of other cybersecurity certification programs, including Certified Secure Computer User, Computer Hacking Forensic Investigator, Certified Security Analyst, Certified Network Defender, Certified SOC Analyst, Certified Threat Intelligence Analyst, Certified Incident Handler, Certified Cybersecurity Technician, Certified Cloud Security Engineer, and Certified Chief Information Security Officer. We are an ANSI 17024-accredited organization and have earned recognition in the United States under DoD Directive 8140/8570; in the United Kingdom by the GCHQ; and from CREST and various other authoritative bodies that influence the entire profession.

Founded in 2001, EC-Council employs over 400 people worldwide with 10 global offices in the United States, United Kingdom, Malaysia, Singapore, India, and Indonesia.

Our U.S. offices are located in Albuquerque, NM, and Tampa, FL. Learn more at www.eccouncil.org



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