



**TECHE**  
Certify, Upgrade, Succeed, Anytime Anywhere  
**LEARN**

PROFESSIONAL

# TECHELEARN

— IT TRAINING —  
HANDBOOK

## BLOCKCHAIN CERTIFICATION COURSE



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- **Increased Demand:** With industries such as finance, healthcare, and supply chain adopting blockchain, professionals with blockchain expertise are highly sought after.



- **Security:** Blockchain offers the highest level of data integrity and security, making it essential in fields that require secure transactions and data storage.
- **Future-Proof Technology:** The rise of decentralized finance (DeFi) and non-fungible tokens (NFTs) highlights the growing importance of blockchain in the modern world.

### What Will You Learn?

Our **Blockchain Certification Course** is designed to provide you with a solid foundation in blockchain technology. Upon successful completion, you will be proficient in:

- **Blockchain Fundamentals:** Understand the core principles of blockchain technology, its structure, and how it ensures secure, transparent, and decentralized transactions.
- **Cryptocurrency:** Learn about the major cryptocurrencies



such as **Bitcoin** and **Ethereum**, they work, and how blockchain enables secure digital payments.

- **Smart Contracts:** Master the creation and deployment of **smart contracts**—self-executing contracts with the terms of the agreement directly written into lines of code.
- **Blockchain Platforms:** Get hands-on experience with leading blockchain platforms like **Ethereum**, **Hyperledger**, and **Solidity**.
- **Consensus Mechanisms:** Learn about the different types of consensus algorithms (Proof of Work, Proof of Stake, etc.) and how they ensure the integrity of a blockchain network.
- **Blockchain Security:** Understand the security protocols that protect blockchain transactions, ensuring data privacy and protection against cyberattacks.
- **Use Cases of Blockchain:** Explore real-world applications of blockchain in various industries such as finance, healthcare, supply chain management, and more.
- **Building Blockchain Applications:** Gain practical knowledge on building blockchain applications (DApps) using tools like **Solidity**, **Truffle**, and **Web3.js**.



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## Course Modules

The **Blockchain Certification Training Course** is divided into the following key modules:

### 1. Introduction to Blockchain Technology

- What is Blockchain?
- History and Evolution of Blockchain
- Blockchain Architecture and Components
- Blockchain Use Cases

### 2. Understanding Cryptocurrency

- Introduction to Cryptocurrencies
- Bitcoin and Ethereum Fundamentals
- How Cryptocurrencies Use Blockchain
- Cryptocurrency Mining and Transactions

### 3. Smart Contracts and Decentralized Applications (DApps)

- Introduction to Smart Contracts
- Solidity Programming Language
- Building and Deploying Smart Contracts
- Decentralized Applications (DApps)

### 4. Blockchain Platforms and Tools





- Introduction to Blockchain Platforms
- Ethereum, Hyperledger, and Other Platforms
- Setting Up Blockchain Networks
- Tools for Blockchain Development



## **5. Blockchain Consensus Algorithms**

- Proof of Work (PoW)
- Proof of Stake (PoS)
- Other Consensus Mechanisms
- Choosing the Right Consensus Mechanism

## **6. Blockchain Security**

- Blockchain Security Fundamentals
- Cryptography in Blockchain
- Secure Transactions and Data Privacy
- Threats and Vulnerabilities in Blockchain

## **7. Blockchain Implementation and Case Studies**

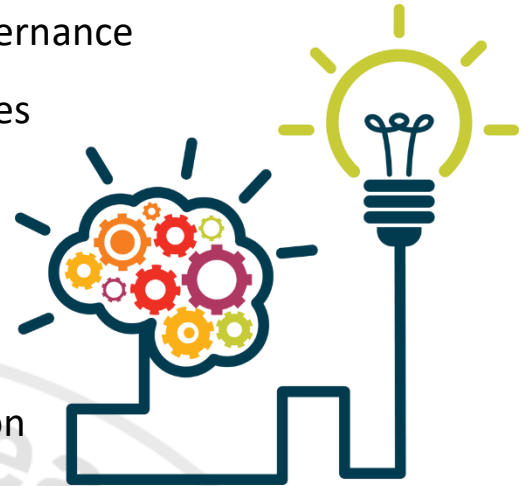
- Blockchain in Finance and Cryptocurrencies
- Blockchain in Supply Chain and Logistics



- Blockchain in Healthcare and Governance
- Real-World Blockchain Case Studies

## 8. Capstone Project

- Hands-on Project: Building a Blockchain Application
- Deploying Your Blockchain Solution
- Real-world Blockchain Application Implementation



### Course Format

Format Detail	Description
Duration	3 Months Training + 1 Month Practice
Learning Approach	30% Theory + 70% Practical
Assessment	90-minute certification exam with 60 MCQs
Passing Score	70%
Certification Criteria	Successful project submission + exam pass

### Who Should Take This Course?

This course is ideal for anyone looking to break into the blockchain field or enhance their existing knowledge, including:

- **Aspiring Blockchain Developers** looking to enter the field of decentralized technologies.





- **Software Developers** wanting to broaden their skill set with blockchain expertise.
- **IT Professionals** seeking to understand the integration of blockchain in enterprise solutions.
- **Entrepreneurs** who wish to leverage blockchain for their business ventures.
- **Finance and Supply Chain Professionals** looking to understand the impact of blockchain in their industries.
- **Tech Enthusiasts** who are passionate about the future of decentralized systems and cryptocurrencies.

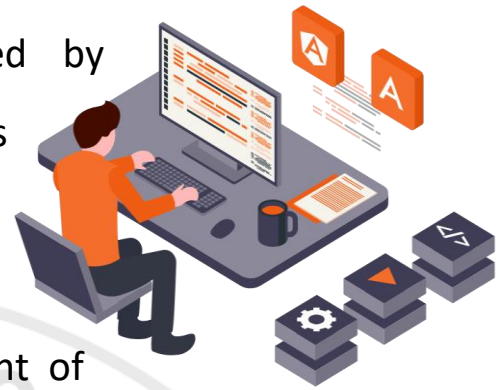


### Why Choose TECHELEARN?



- **Comprehensive Curriculum:** Our course covers everything you need to become a blockchain expert, from the basics to advanced techniques.
- **Hands-On Learning:** Work on real-world projects and gain practical experience with blockchain development.




- **Global Recognition:** Gain certification from a globally recognized training platform trusted by professionals and businesses worldwide.
- **Expert Guidance:** Learn from industry professionals who are at the forefront of blockchain technology.
- **Career Support:** Receive placement assistance and career counselling to help you land your dream job in blockchain.



#### Training Modes

-  Live Instructor-Led Online Training
-  Self-Paced Learning + Assignments
-  Corporate On-Demand Training Workshops
-  Hybrid Model for Flexibility & Impact

 Includes: Source Code, Assignments, Quizzes, Final Capstone Project & Certificate Exam

#### Bonus Add-ons

- ✓ GitHub Portfolio Setup
- ✓ Resume & LinkedIn Optimization
- ✓ Interview Preparation Sessions
- ✓ Lifetime Access to Developer Community





**Partner with TECHELEARN – Upskill Your Team**

TECHELEARN offers  
customized Blockchain  
training for businesses.



**Talk to Our Enterprise**

**Team**



**Request a Tailored Group Training Plan**



**Get Started Blockchain Journey Today**

Join **11,000+** learners who trust **TECHELEARN** for career-ready skills.



**Blockchain** skills are in high demand. Don't just learn—**Master it**  
with **TECHELEARN**.





# GET IN TOUCH

- *Personalized Support:* Whether you're seeking technical assistance or career guidance, we offer personalized, professional support.
- *Collaborate with Us:* We partner with educational institutions, businesses, and experts to offer training that meets industry needs.

## **JOIN US IN THIS EXCITING JOURNEY!**



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