KAIRAA
Blockchain Academy

BLOCKCHAIN DEVELOPER

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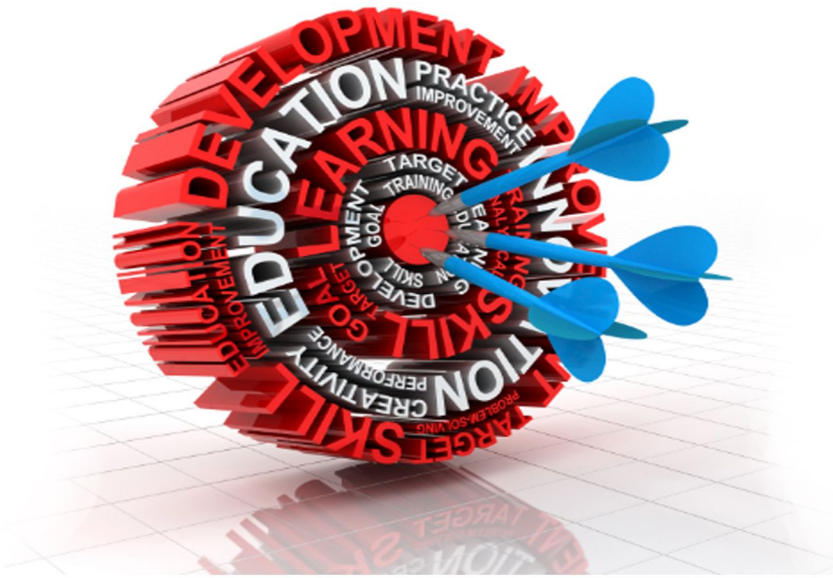
Course Objective

The objective of this course is to provide beginners with the knowledge and skills needed to become a blockchain developer. By the end of the course, participants should be able to build a basic DApp and have a strong foundation in blockchain development concepts.



Suitable For

This course is designed for individuals who have a basic understanding of programming but are new to blockchain development. It is suitable for:

Software developers looking to transition into blockchain development. Entrepreneurs and innovators interested in building blockchain-based applications.

Tech enthusiasts eager to explore blockchain development.Students and professionals seeking a career in blockchain technology.

Course Highlights

Hands-On Projects

Participants will build a simple DApp during the course to apply what they've learned.

Practical Skills

Focus on real-world development skills that can be immediately applied.

Instructor Guidance

Detailed guidance and support from experienced blockchain developers.

Peer Learning

Collaborative exercises and discussions to enhance learning.
Certificate of Completion: Certificate of Completion: Online Test Evaluation

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Modules

1.Introduction to Blockchain Development

- Basics of Blockchain Technology
- Development Tools and Environments
- Setting Up Development Environment

2.Ethereum and Smart Contracts

- Ethereum Platform Overview
- Solidity Programming Language
- Writing and Deploying Smart Contracts
- Interacting with Smart Contracts

3.Decentralized Application (DApp) Architecture

- Understanding DApps
- DApp Components (Frontend, Backend, Smart Contracts)
- Web3.js: Interaction between DApp and Blockchain

4.Building a Simple DApp

- Ideation and Project Planning
- Creating the Frontend (HTML, CSS, JavaScript)
- Developing the Smart Contract
- Integrating Web3.js
- Testing and Deployment
- User Interface Design and User Experience (UI/UX)

5.Advanced Topics

- Security Best Practices (Avoiding Common Vulnerabilities)
- Gas Optimization
- IPFS and Decentralized Storage
- Oracles and Real-World Data Integration
- Scaling Solutions (e.g., Layer 2)

6.Ethereum Development Ecosystem

- Ethereum Improvement Proposals (EIPs)
- Ethereum Development Tools (Truffle, Remix, Hardhat)
- Other Blockchain Platforms (e.g., Binance Smart Chain, Solana)

7.Final DApp Project and Presentations

- Participants work on a more complex DApp project
- Project presentations and feedback

8.Conclusion and Next Steps

- Review of Key Concepts
- Discussing Career Opportunities in Blockchain Development

9.Final test and Evaluation

- Final Certification delivery

This 30-hour Beginner Level Blockchain Developer Course will provide participants with hands-on experience in building a simple DApp and equip them with the knowledge and skills needed to pursue a career in blockchain development.

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