

BLOCKCHAIN CERTIFICATION



2023



BLOCKCHAIN CERTIFIED DEVELOPER

Become a Certified Blockchain Expert With ASB's Blockchain Certification Course.

Get prepared for the business revolution with our blockchain certification program. In this [blockchain certification course](#), participants can delve deep into the blockchain technology and learn directly from practical applications of the technology. ASB is proud to present this first-of-its-kind blockchain technology certification program that allows professionals to unlock the future of their careers or business.

[ASB's blockchain certification program](#) gives you the tools to discern the applicability of blockchain technology to any given business model. Study how digital assets use blockchain to facilitate P2P transactions. Gain a solid understanding of the mechanics behind blockchain protocols and discover how these can solve problems to support business goals.

Led by Antier and joined by leaders and industry experts from blockchain and AI startups, investment firms, and other leading institutions, this certification program gives you knowledgeable content and relevant frameworks so you can drive innovation using blockchain technology.

About **83% of global suppliers, business partners, competitors, and customers** are talking about working with digital assets and moving to blockchain in context to their strategies or solutions. Although blockchain has been synonymous with digital assets, its applications and use cases go far beyond financial transactions.

395%
Growth of
blockchain-related
jobs in 2021

\$176 Billion
Business value-add
that blockchain is
estimated to
contribute by 2025

Key Features



COURSE LENGTH
2 months



CLASS SIZE
20 Students



EFFORT
10 Hours a Week



LIVE PROJECTS



MODEL
Instructor - led



TRAINING
80% Practical, 20 % Theory



Syllabus / Curriculum

Module 1 Building Blocks of Blockchain

- ✔ Blockchain as a Career
- ✔ Introduction to Blockchain+ Digital Signatures
- ✔ Concept of Hashing + Merkle Tree + Hash Cash
- ✔ Concept of Networking TCP/IP + Peer to Peer
- ✔ Combining the Foundation of Technologies to form Blockchain Ecosystem

Module 2 Blockchain Beyond Basics

- ✔ Introducing types of Blockchain + Bitcoin Blockchain
- ✔ Introducing Ethereum Blockchain + Concept of Private Blockchain
- ✔ Introduction to Smart Contract + Web3 development tools
- ✔ Introduction to Solidity + Smart Contract Terminologies+ Gas Fees Optimization
- ✔ Loops, Operators, and Advanced Data Structures

Module 3 Smart Contract Development

- ✔ Concept of ERC 20 + Creation of Token in EVM Compatible Blockchain
- ✔ Creation of Own Token Advanced
- ✔ Creating a Staking Platform
- ✔ Advanced Concepts of Staking Platform
- ✔ Introduction to Hardhat and Foundry Frameworks (Smart Contract Frameworks)

Module 4 Non-Fungible Tokens

- ✔ Introduction to NFT Standard ERC721 + IPFS & Pinata
- ✔ Introduction to Basic Testing Text
- ✔ Advanced Test Cases
- ✔ Hands on training on Testing Scripts and Deployment Scripts
- ✔ Exploring Blockchain Explorers and Open Sea + Concept of ERC1155

Module 5 **Case study**

- ✔ Understanding Various Use Cases of Blockchain- Launchpad, Staking Platforms
- ✔ Understanding Various Use Cases of Blockchain - NFT Marketplaces , DEX
- ✔ Understanding Various Use Cases of Blockchain - STO, Decentralized Lottery Platforms
- ✔ Understanding Various Use Cases of Blockchain - Supply Chain
- ✔ Understanding Various Use Case of Blockchain: Healthcare

Module 6 **Blockchain Research**

- ✔ Researching Blockchain Thoughtpaper 1
- ✔ Researching Blockchain Thoughtpaper 2
- ✔ Presentation of Blockchain Thoughtpaper + QA
- ✔ Presentation of Blockchain Thoughtpaper + QA 1
- ✔ Internal Assessment

Module 7 **Business Planning**

- ✔ Understanding how to scope a Blockchain Project
- ✔ Scoping Day 1: Selecting Team and Finalizing Use Cases
- ✔ Scoping Day 2 : Draft Scope of Work_ Version 1
- ✔ Scoping Day 3 : Draft Scope of Work_ Version 2
- ✔ Scoping Day 4: Final Scope of Work (Presentation Day)

Module 8 **Advance Smart Contract Development**

- ✔ Introduction and Usage of Oracle Price Feeds
- ✔ Random User Number Generation through Chainlink VRF + Creating Gaming Contract
- ✔ Advanced Concept : Introduction to Libraries and Implementation
- ✔ Advanced: Introduction to Proxy Contract and Implementation
- ✔ Advanced: Introduction to Fall Back Function

Module 9 Testing and Audits

- ✔ Workshop for Writing, Compiling, and Deploying of a Smart Contract
- ✔ Post Deployment Writing Complete Test Suite
- ✔ Testing on Remix and Monitoring Transaction on Explorer
- ✔ Smart Contract Auditing Best Practices

Module 10 Private Blockchains

- ✔ Introduction to Hyperledger
- ✔ Hyperledger architecture
- ✔ Hyperledger frameworks
- ✔ Business Network Deployment on Hyperledger Composer Playground
- ✔ Setting up Development Environment using Composer
- ✔ Developing business networks
- ✔ Testing business networks
- ✔ Hyperledger Fabric

Module 11 Consensus Comparison

- ✔ Understanding R3
- ✔ Understanding BSC
- ✔ Understanding Algorand
- ✔ Selection criteria for blockchain day 1
- ✔ Selection criteria for blockchain day 2
- ✔ Understanding layer 2 Blockchain
- ✔ Understanding concept of zero knowledge proof
- ✔ Understanding Zk snark
- ✔ Understanding Zk sync
- ✔ Understanding Zk roll-ups

Module 12 Web Development

- ✔ HTML/CSS
- ✔ Understanding Javascript/ React.js
- ✔ Node/Mysql

On successful completion of the programme,
you will earn a coveted certificate as **Antier School of
Blockchain.**



* The Certificate shown above is for indicative purpose only. The actual certificate may vary.

Internship and Placement Opportunity on Successful Completion.

Career Options After Course Completion.

- ✔ Business Analysts
- ✔ Solution Architects
- ✔ Product Managers
- ✔ Entrepreneurs
- ✔ Project Managers and Team Leads
- ✔ Professionals Working with Managerial, Strategic, or Operational Functions
- ✔ Developers and Software Engineers
- ✔ Technology Leaders



Certificate Program in
**BLOCKCHAIN
DEVELOPMENT**

YOUR DREAM CAREER! JUST A CLICK AWAY !!!

Any questions?

CONTACT ME



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