Training Course on Blockchain and Data Privacy

Professional Development Training Course Outline

Category	Data Security	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

As digital technologies continue to evolve, Blockchain has emerged as a transformative force in securing transactions, enhancing transparency, and ensuring the integrity of data. Coupled with increasing concerns around Data Privacy, especially in an age of widespread data breaches and stringent global regulations like GDPR and CCPA, there is a growing need for professionals to understand the intersection of these domains. Training Course on Blockchain and Data Privacy provides in-depth insights into how blockchain can be used as a powerful tool for enhancing data privacy, while also addressing the ethical, legal, and regulatory implications.

Designed for professionals across tech, legal, and business sectors, this course empowers learners to explore the decentralized data ecosystem, understand cryptographic protection, and implement privacy-by-design strategies using blockchain. The course uses real-world case studies and current industry practices to demonstrate the practical application of concepts, helping participants to make data-driven decisions in a privacy-centric digital world.

Programme Curriculum

Training Course on Blockchain and Data Privacy

Introduction

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Course Objectives

1. Understand the fundamentals of blockchain architecture and data privacy frameworks.
2. Explore how decentralization impacts data protection.
3. Analyze regulatory policies such as GDPR, HIPAA, and CCPA.
4. Examine cryptographic techniques used in securing data.
5. Learn about smart contracts and their privacy implications.
6. Apply privacy-by-design principles in blockchain applications.
7. Understand public vs. private blockchain in the context of privacy.
8. Discover how tokenization and digital identity support data security.
9. Study the risks of data leaks, identity theft, and unauthorized access.
10. Explore blockchain governance models and compliance mechanisms.
11. Develop privacy-centric blockchain solutions through hands-on projects.
12. Assess ethical challenges in decentralized data storage and management.
13. Prepare for industry certifications in Blockchain Privacy and Security.

Target Audience

1. Data Privacy Officers
2. IT and Cybersecurity Professionals
3. Blockchain Developers
4. Legal and Compliance Advisors
5. CIOs and CTOs
6. Risk Management Consultants
7. Fintech Professionals
8. Government and Public Sector Employees

Course Duration: 5 days

Course Modules

Module 1: Introduction to Blockchain Technology

- Definition, components, and working principles of blockchain
- Types of blockchains: public, private, and consortium
- Key features: immutability, decentralization, and transparency
- Relevance of blockchain in current data environments
- Real-world blockchain use cases
- **Case Study**: Blockchain in financial transactions and KYC

Module 2: Understanding Data Privacy and Protection

- Importance of data privacy in digital systems
- Overview of global privacy laws (GDPR, CCPA, HIPAA)
- Key concepts: PII, consent, data minimization
- Data classification and access control models
- Privacy risk assessment methodologies
- **Case Study**: Facebook–Cambridge Analytica scandal analysis

Module 3: Blockchain and Regulatory Compliance

- How blockchain interacts with privacy laws
- The challenge of “Right to be Forgotten” on blockchain
- Compliance with GDPR using zero-knowledge proofs
- Tools for privacy auditing on decentralized platforms
- Data subject rights vs. blockchain immutability
- **Case Study**: Estonia’s e-Residency Program and blockchain compliance

Module 4: Cryptography in Blockchain for Data Security

- Basics of cryptography: hashing, public-private keys
- Encryption techniques for privacy protection
- Role of zero-knowledge proofs and homomorphic encryption
- Secure multi-party computation
- Digital signatures and authentication
- **Case Study**: Zcash and the implementation of privacy-preserving transactions

Module 5: Smart Contracts and Privacy Risks

- What are smart contracts and how they work
- Transparency vs. confidentiality in smart contracts
- Data exposure in contract execution
- Privacy enhancement through Layer-2 protocols
- Best practices in smart contract privacy design
- **Case Study**: Ethereum DAO breach and smart contract vulnerabilities

Module 6: Blockchain-Based Identity and Access Management

- Self-sovereign identity (SSI) on blockchain
- Verifiable credentials and decentralized identifiers (DIDs)
- Reducing identity fraud using blockchain
- Use of blockchain in biometric and digital ID systems
- Integration with IoT and secure access control
- **Case Study**: Microsoft’s ION project on decentralized identity

Module 7: Implementing Privacy-by-Design in Blockchain Solutions

- Seven foundational principles of Privacy-by-Design
- Integration into blockchain system architecture
- Risk mitigation during DApp development
- Privacy assessment frameworks for blockchain projects
- Balancing usability and privacy
- **Case Study**: Healthcare DApp ensuring HIPAA compliance via blockchain

Module 8: Ethics, Risks, and Future of Blockchain & Data Privacy

- Ethical dilemmas in decentralized ecosystems
- Potential misuse and surveillance concerns
- Privacy vs. transparency trade-offs
- Future trends: Web3, DeFi, and privacy layers
- Career and certification pathways in blockchain privacy
- **Case Study**: China's social credit system vs. blockchain for human rights

Training Methodology

- Interactive instructor-led sessions (virtual or onsite)
- Hands-on labs and simulation-based learning

- Weekly real-world case study discussions
- Peer-to-peer collaboration and knowledge sharing
- Final capstone project and certification assessment

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com