Datastat Research
Building Capacity in Training and Research

DATASTAT TRAINING IN

OFFICIAL COURSE PROSPECTUS

Center for Advanced Research & Professional Development

Nairobi Training Center • Global Virtual Academy • Corporate On-Site

ACCOUNTING AND FINANCE

Smart Contracts and Distributed Ledger Applications in Finance Training Course

Comprehensive Course Syllabus, Practical Modules & Upcoming Schedules

PROGRAM SPECIFICATIONS & HIGHLIGHTS

DURATION
5 Days Practical Hands-on

DELIVERY MODES
In-Person Class & Live Virtual

CERTIFICATION
Accredited Certificate of Completion

INTAKES / DATES
Multiple Cohort Schedules Included

PREPARED FOR:

Valued Participant

Email: training@datastatresearch.org | Issued: November 24, 2026

Academic & Professional Training Year: 2026

DATASTAT TRAINING INSTITUTE

P.O. Box 102802-00101, Nairobi, Kenya

Training Centers: Nairobi • Mombasa • Kigali • Dubai • Live Virtual Academy

Tel: +254 724 527 104 | +254 734 969 612

Email: training@datastatresearch.org

www.datastatresearch.org

Smart Contracts and Distributed Ledger Applications in Finance Training Course

Accounting and Finance • 5 Days Intensive • Accredited Certification

Course Overview

Smart Contracts and Distributed Ledger Applications in Finance Training Course provides comprehensive knowledge and practical skills in blockchain technology, smart contract development, and distributed ledger technology (DLT) for modern financial services.

Key Skills & Software Tools Covered

MS Word • Hyperledger Fabric • Ethereum • and Solidity

Upcoming Training Schedules

Confirmed cohort intakes and venues. Both physical in-person classroom and live virtual online seats are available.

TRAINING DATES	LOCATION / VENUE	FORMAT / DURATION	INVESTMENT (FEE)
30 Nov 2026 – 4 Dec 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
7 Dec 2026 – 11 Dec 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
14 Dec 2026 – 18 Dec 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
21 Dec 2026 – 25 Dec 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
28 Dec 2026 – 1 Jan 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
4 Jan 2027 – 8 Jan 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
11 Jan 2027 – 15 Jan 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
18 Jan 2027 – 22 Jan 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
25 Jan 2027 – 29 Jan 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
1 Feb 2027 – 5 Feb 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
8 Feb 2027 – 12 Feb 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
15 Feb 2027 – 19 Feb 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
22 Feb 2027 – 26 Feb 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
1 Mar 2027 – 5 Mar 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
8 Mar 2027 – 12 Mar 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
15 Mar 2027 – 19 Mar 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
22 Mar 2027 – 26 Mar 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
29 Mar 2027 – 2 Apr 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
5 Apr 2027 – 9 Apr 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
12 Apr 2027 – 16 Apr 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
19 Apr 2027 – 23 Apr 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
26 Apr 2027 – 30 Apr 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**

3 May 2027 – 7 May 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
10 May 2027 – 14 May 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
17 May 2027 – 21 May 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
24 May 2027 – 28 May 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
31 May 2027 – 4 Jun 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
7 Jun 2027 – 11 Jun 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
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9 Aug 2027 – 13 Aug 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
16 Aug 2027 – 20 Aug 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
23 Aug 2027 – 27 Aug 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
30 Aug 2027 – 3 Sep 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
6 Sep 2027 – 10 Sep 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
13 Sep 2027 – 17 Sep 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
20 Sep 2027 – 24 Sep 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
27 Sep 2027 – 1 Oct 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
4 Oct 2027 – 8 Oct 2027	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
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* Corporate discounts and customized cohort scheduling are available for teams of 3 or more participants.

Course Curriculum & Modules

Smart Contracts and Distributed Ledger Applications in Finance Training Course

Introduction

Smart Contracts and Distributed Ledger Applications in Finance Training Course provides comprehensive knowledge and practical skills in blockchain technology, smart contract development, and distributed ledger technology (DLT) for modern financial services. As financial institutions accelerate digital transformation, blockchain-powered solutions are reshaping financial transactions, payment processing, trade finance, asset tokenization, regulatory compliance, and financial data management. This course explores decentralized finance (DeFi), blockchain architecture, consensus mechanisms, cryptographic security, digital assets, and automated financial agreements to help participants understand how distributed ledger applications improve transparency, operational efficiency, security, and trust in financial ecosystems.

The course also examines practical applications of smart contracts in banking, insurance, investment management, capital markets, and cross-border payments. Participants will explore enterprise blockchain platforms, financial automation, digital identity management, transaction validation, and regulatory considerations while examining international case studies from leading financial markets. Through practical exercises and real-world scenarios, learners will develop the capabilities to assess blockchain adoption opportunities, design smart contract workflows, manage implementation risks, and leverage decentralized technologies to support innovation, financial inclusion, and sustainable digital finance transformation.

Course Objectives

By the end of this course, participants will be able to:

- Understand blockchain fundamentals and distributed ledger technology.
- Explain smart contract architecture and automated execution.
- Apply blockchain solutions to financial transactions.
- Evaluate decentralized finance and digital asset ecosystems.
- Understand cryptocurrency and tokenization applications.
- Explore enterprise blockchain platforms and frameworks.
- Develop secure smart contract workflows.
- Apply cryptographic principles to financial data protection.
- Evaluate blockchain-based payment and settlement systems.
- Understand regulatory technology and blockchain compliance.
- Identify smart contract vulnerabilities and cybersecurity risks.
- Assess blockchain interoperability and scalability solutions.
- Develop strategies for financial technology innovation and digital transformation.

Organizational Benefits

- Reduced transaction processing costs through automation.
- Improved financial transparency and accountability.
- Enhanced security through cryptographic verification.
- Faster payment processing and settlement.
- Reduced fraud and unauthorized transaction risks.
- Improved regulatory compliance and auditability.
- Increased operational efficiency across financial processes.
- Better integration of digital financial services.
- Improved asset management through tokenization.
- Greater competitiveness through blockchain innovation.

Target Audiences

- Banking and financial services professionals.
- Financial technology (FinTech) specialists.
- Accountants and financial analysts.

- Blockchain developers and IT professionals.
- Investment and asset management professionals.
- Risk management and compliance officers.
- Insurance and payment processing professionals.
- Financial regulators and digital transformation consultants.

Course Duration: 5 days

Course Modules

Module 1: Blockchain and Distributed Ledger Fundamentals

- Blockchain architecture, nodes, blocks, and distributed networks.
- Public, private, and consortium blockchain models.
- Consensus mechanisms and transaction validation.
- Cryptography, hashing, and digital signatures.
- Financial applications of distributed ledger technology.
- Case study: Bitcoin's blockchain and its influence on global financial transactions.

Module 2: Smart Contract Architecture and Development

- Smart contract principles and automated execution.
- Contract lifecycle, functions, and programming logic.
- Solidity fundamentals and Ethereum Virtual Machine.
- Contract deployment, testing, and execution.
- Security considerations in automated agreements.
- Case study: Ethereum smart contracts supporting decentralized financial applications.

Module 3: Distributed Ledger Applications in Banking

- Blockchain-enabled banking operations.
- Digital identity verification and customer onboarding.
- Interbank reconciliation and transaction processing.
- Blockchain-based lending and credit management.
- Financial data sharing and transparency.
- Case study: JPMorgan's JPM Coin and blockchain-based institutional payments.

Module 4: Decentralized Finance and Digital Assets

- Decentralized finance (DeFi) architecture and applications.
- Cryptocurrency transactions and digital wallets.
- Decentralized lending, borrowing, and exchanges.
- Stablecoins and programmable financial assets.
- Digital asset custody and risk management.
- Case study: Aave's decentralized lending and borrowing ecosystem.

Module 5: Blockchain-Based Payments and Trade Finance

- Cross-border payments and international settlements.
- Smart contracts for trade documentation.
- Automated invoicing and payment execution.
- Supply chain finance and transaction verification.
- Payment interoperability and settlement efficiency.
- Case study: Ripple's blockchain-based international payment solutions.

Module 6: Financial Asset Tokenization and Investment Management

- Real-world asset tokenization fundamentals.
- Tokenized securities, bonds, and investment products.
- Fractional ownership and digital investment platforms.
- Blockchain applications in capital markets.

- Asset custody, valuation, and ownership verification.
- Case study: BlackRock's BUIDL tokenized fund and digital asset infrastructure.

Module 7: Smart Contract Security, Governance and Compliance

- Smart contract vulnerabilities and cybersecurity threats.
- Regulatory compliance and anti-money laundering controls.
- Blockchain governance and permission management.
- Smart contract auditing and risk assessment.
- Data privacy and regulatory reporting.
- Case study: The DAO exploit and lessons in smart contract security.

Module 8: Enterprise Blockchain Implementation and Future Trends

- Enterprise blockchain adoption strategies.
- Hyperledger Fabric and enterprise blockchain frameworks.
- Blockchain interoperability and scalability.
- Integration with artificial intelligence and Internet of Things.
- Implementation planning, performance measurement, and return on investment.
- Case study: TradeLens and its application of blockchain in global supply chain documentation.

Training Methodology

- Instructor-led presentations and interactive discussions.
- Practical smart contract development and deployment exercises.
- Blockchain platform demonstrations and simulations.
- Group projects involving financial blockchain applications.
- International case study analysis and problem-solving.
- Collaborative exercises on blockchain security and compliance.
- Practical assessment and knowledge-sharing sessions.

Register as a group from 3 participants for a Discount

Send us an email: info@datastatresearch.org or call +254724527104

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 DATASTAT CONSULTANCY LTD account, as indicated in the invoice so as to enable us prepare better for you.

Certification & Learning Methodology

- Hands-on practical delivery with real-world datasets, case studies, and lab exercises.
- Post-training mentorship, access to class resources, and customized follow-up support.
- Participants who successfully complete the course receive an accredited Datastat Certificate of Completion.

How to Enroll & Reserve Your Seat

1. Online Registration: Visit https://datastatresearch.org/courses/smart-contracts-and-distributed-ledger-applications-in-finance-training-course to register online.
2. Email Booking: Send participant details to training@datastatresearch.org for official invoice & reservation.
3. Support & Assistance: Inquire via phone +254 724 527 104 | +254 734 969 612.