Decentralised Finance and Tokenisation in Banking Training Course

26 – 30 July 2027
Singapore (Singapore)



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Ref: 7_360440 **Date:** 26 – 30 July 2027 **Location:** Singapore (Singapore) **Fees:** 5400 GBP

Introduction:

DeFi Decentralised Finance: The Future of Financial Services equips you over one week to assess, stress-test, and deploy disintermediated financial protocols within institutional environments. You will construct an Institutional DeFi Protocol Evaluation and Integration Blueprint to guide enterprise digital asset decisions. You need standard financial market literacy; no prior coding experience or smart contract engineering skills are required. You practise through hands-on case study analysis examining protocol architectures, automated market makers, and real-world collateralisation models. Master the mechanics of decentralized capital markets with Blackbird Training Center.

Course Objectives:

- Map protocol architectures and consensus mechanisms using the FSB Decentralized Finance Assessment Framework on institutional settlement flows
- Score smart contract security and counterparty arrangements using an audit risk rubric on selected liquidity pools
- Test automated market maker slippage and impermanent loss using a constant product mathematical model on institutional treasury allocations
- Run stress-testing scenarios and liquidation thresholds using collateral sensitivity schedules on decentralised borrowing protocols
- Draft an institutional digital asset governance charter using regulatory sandbox compliance matrices on proposed enterprise deployments

Target Audience:

- You oversee banking operations and need to evaluate disintermediated settlement, liquidity, and tokenisation channels
- You manage treasury functions and seek to evaluate yield mechanics, liquidity pooling, and automated market making
- You lead risk management teams responsible for auditing smart contract exposures, protocol exploits, and counterparty vulnerabilities
- You direct financial product development and design institutional investment instruments integrated with distributed ledger protocols
- You handle compliance and legal affairs tasked with navigating evolving cross-border decentralised asset policy recommendations



Course Outline:

Day 1: Evaluating Distributed Ledger Foundations and Decentralised Architectures

- Analysing Protocol Architectures Using The FSB Decentralized Finance Framework
- Comparing Consensus Mechanisms Using Transaction Finality Metrics Benchmarks
- Mapping Sovereign Custody Structures Using Multi-Signature Key Management Templates
- Evaluating Layer One And Layer Two Scaling Trade-Offs
- Build: Decentralised Ledger Architecture and Protocol Evaluation Matrix

Day 2: Auditing Smart Contracts and Protocol Governance Mechanisms

- Assessing Smart Contract Logic Using Static Vulnerability Classification Checklists
- Inspecting Decentralised Governance Structures Using Voting Quorum Benchmark Rubrics
- Evaluating Oracle Dependency Risks Using Price Feed Reliability Grids
- Auditing Third-Party Attestations Using Statutory Audit Verification Criteria
- Build: Smart Contract Operational Risk and Governance Audit Scorecard

Day 3: Modelling Automated Market Makers and Liquidity Pools

- Calculating Impermanent Loss Dynamics Using Constant Product Mathematical Models
- Evaluating Tokenomics Mechanisms Using Reserve Asset Backing Spreadsheets
- Assessing Decentralised Exchange Routing Using Slippage Tolerance Optimization Sheets
- Testing Protocol Yield Strategies Using Fee Accrual Diagnostic Models
- Build: Automated Market Maker and Liquidity Pool Financial Model

Day 4: Stress-Testing Decentralised Lending and Credit Protocols

- Modelling Over-Collateralised Loan Portfolios Using Dynamic Loan-To-Value Schedules
- Running Liquidation Cascades Using Collateral Price Shock Simulation Scenarios
- Assessing Real-World Asset Tokenisation Using Credit Structuring Review Templates
- Evaluating Flash Loan Vulnerabilities Using Capital Drain Exposure Matrices
- Build: Disintermediated Lending Protocol Stress-Testing and Collateral Schedule

Day 5: Defending Case Studies and Finalising Institutional Deployment

- Reviewing Enterprise Pilot Frameworks Using Regulatory Sandbox Evaluation Protocols
- Assessing Regulatory Outcomes Using The IOSCO Same-Risk Equivalence Checklist
- Synthesising Protocol Audit Findings Using The Integrated Risk Heatmap
- Defending Protocol Deployment Feasibility In A Peer-Reviewed Case Study
- Build: Institutional DeFi Protocol Evaluation and Integration Blueprint



Skills You Will Gain:

- Smart Contract Audit Rubric Application
- Impermanent Loss Mathematical Modelling
- Constant Product AMM Valuation
- Collateral Sensitivity Stress-Testing
- Multi-Signature Custody Architecture Design
- Protocol Governance Vulnerability Mapping
- Real-World Asset Tokenisation Structuring

Why Attend This Course:

- Master quantitative mechanics behind liquidity pools, automated market makers, and disintermediated lending protocols
- Strengthen operational risk controls against smart contract vulnerabilities, oracle exploitation, and market liquidity shocks
- Navigate evolving international regulatory standards for decentralised financial architecture and digital asset governance
- Build your Institutional DeFi Protocol Evaluation and Integration Blueprint to steer confident institutional adoption

Conclusion:

During your first week back, benchmark your department's existing digital asset proposals against the completed Institutional DeFi Protocol Evaluation and Integration Blueprint. Present the resulting protocol risk scores and operational governance matrices to your investment committee and risk oversight executives. After this initial presentation, check the sensitivity of your collateral liquidation thresholds and custody key management assumptions against prevailing market volatility data. This establishes a disciplined, repeatable assessment routine for all future decentralised finance initiatives across your organisation.

