

Trade Finance Workflow Development

Hours: 40 Hours

Course Overview

Trade Finance Workflow Development is a specialized course focused on designing, building, and optimizing workflows for trade finance systems. The course equips participants with a deep understanding of how trade finance processes are translated into structured, automated workflows that span multiple systems, stakeholders, and regulatory checkpoints.

The course emphasizes practical workflow design, orchestration, exception handling, and integration with messaging standards such as SWIFT and ISO 20022. Participants will learn how to model real-world trade finance scenarios into scalable, auditable, and resilient workflows, enabling faster processing, reduced operational risk, and improved compliance.

Target Audience

This course is ideal for:

- Software developers and engineers working on banking or fintech platforms
- Technical architects and system analysts involved in trade finance solutions
- API and integration developers supporting SWIFT, ISO 20022, or core banking systems
- QA, testing, and support professionals working on trade finance applications
- Product managers and business analysts with a technical background
- Fintech professionals entering the trade finance domain

Trade Finance Fundamentals for Developers

Trade Finance Workflow Development

Module 1: Introduction to Trade Finance Workflows

- What trade finance workflows are and why they matter
- Manual vs automated workflows
- Role of workflows in efficiency, risk reduction, and compliance

- Developer perspective on workflow-driven systems
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Module 2: Trade Finance Process Mapping

- Identifying key trade finance processes
 - Import and export workflow mapping
 - LC, guarantees, and collections workflows
 - As-is vs To-be process design
 - Bottlenecks and optimization opportunities
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Module 3: Workflow Design Principles

- Workflow components: tasks, events, states, and transitions
 - Sequential vs parallel workflows
 - Human-in-the-loop vs straight-through workflows
 - Exception handling and escalation paths
 - Designing for flexibility and scalability
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Module 4: End-to-End Letter of Credit (LC) Workflows

- LC issuance workflow
 - Advising and confirmation workflow
 - Amendment and acceptance workflow
 - Document presentation and checking workflow
 - Settlement and closure workflow
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Module 5: Workflows for Other Trade Finance Instruments

- Documentary Collections workflows (DP / DA)
 - Bank Guarantees and SBLC workflows
 - Open Account and Supply Chain Finance workflows
 - Common workflow patterns across instruments
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Module 6: Document-Centric Workflow Development

- Document intake and validation workflows
 - Discrepancy identification and resolution flows
 - Multi-party document approval workflows
 - Digital document and e-document workflows
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Module 7: Workflow Integration & Messaging

- Workflow integration with core trade systems
 - SWIFT message-triggered workflows
 - ISO 20022 event-based workflows
 - API-driven workflow orchestration
 - Handling asynchronous events
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Module 8: Workflow Rules, Controls & Compliance

- Embedding business rules in workflows
 - Compliance checkpoints (KYC, AML, sanctions)
 - Risk controls and maker-checker workflows
 - Audit trails and traceability
 - Regulatory considerations in workflow design
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Module 9: Data, State Management & Orchestration

- Workflow state models
 - Data persistence and versioning
 - Handling workflow restarts and retries
 - Idempotency and consistency
 - Workflow orchestration patterns
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Module 10: Exception Handling & Operational Resilience

- Common trade finance exceptions

- Manual intervention workflows
 - Error recovery and rollback strategies
 - SLA monitoring and alerts
 - Business continuity considerations
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Module 11: Testing & Validation of Trade Workflows

- Workflow unit and integration testing
 - Scenario-based and negative testing
 - Simulating external dependencies
 - UAT for trade finance workflows
 - Audit and compliance validation
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Module 12: Reporting, Monitoring & Optimization

- Workflow KPIs and performance metrics
 - Operational dashboards
 - Bottleneck analysis
 - Continuous workflow improvement
 - Feedback loops from operations
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Module 13: Digital Trade & Future Workflow Models

- Paperless and digital trade workflows
 - Event-driven and microservices-based workflows
 - Blockchain-enabled workflow orchestration
 - AI-assisted workflow decisioning
 - Future trends in trade finance automation
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