API Banking Training Course

Professional Development Training Course Outline

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

Course Introduction

Application Programming Interfaces (APIs) have become the backbone of Digital Banking, Open Banking, Embedded Finance, and Banking-as-a-Service (BaaS) ecosystems. Financial institutions, fintech companies, payment service providers, and regulators are rapidly adopting API-first architectures to deliver secure, scalable, and customer-centric financial services. API Banking enables seamless integration between banks and third-party applications, accelerating innovation in payments, lending, customer onboarding, account aggregation, identity verification, treasury management, and financial data sharing.

API Banking Training Course is designed to equip banking professionals, fintech developers, solution architects, compliance teams, business analysts, and technology leaders with practical expertise in designing, securing, implementing, managing, and monetizing banking APIs. Participants will gain hands-on experience with Open Banking APIs, PSD2 concepts, API Security, Digital Payments, AI Integration, API Lifecycle Management, Cloud Banking, DevSecOps, API Testing, Financial Data Exchange, and Banking Innovation. Through industry case studies, practical demonstrations, and real-world implementation scenarios, learners will develop the skills required to build next-generation digital banking solutions that improve customer experience, operational efficiency, regulatory compliance, and business growth.

Programme Curriculum

API Banking Training Course

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Course Duration

5 days

Course Objectives

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

1. Understand API Banking Ecosystems, Open Banking, and Embedded Finance models.
2. Design secure RESTful Banking APIs using modern API standards.
3. Implement OAuth 2.0, OpenID Connect, JWT, and Zero Trust Security.
4. Integrate banking APIs with FinTech, Payment Gateways, and Digital Wallets.
5. Build API solutions using Microservices Architecture and Cloud Banking platforms.
6. Apply API Governance, API Lifecycle Management, and Developer Portal strategies.
7. Implement Real-Time Payments, Instant Payments, and ISO 20022 messaging.
8. Perform API Testing, Automation, Performance Testing, and Monitoring.
9. Ensure compliance with PSD2, GDPR, PCI DSS, KYC, and AML requirements.
10. Leverage AI, Machine Learning, and Generative AI for intelligent banking APIs.
11. Deploy APIs using DevSecOps, CI/CD Pipelines, and Containerization
12. Analyze API analytics, monetization strategies, and API Economy business models.
13. Develop enterprise-ready API Banking implementation strategies for digital transformation.

Target Audience

- Banking Technology Professionals
- FinTech Developers and Engineers
- Solution Architects
- API Developers and Integration Specialists
- Digital Banking Product Managers
- Business Analysts and Project Managers
- Information Security and Compliance Professionals
- IT Managers, CTOs, and Digital Transformation Leaders

Course Modules

Module 1: Introduction to API Banking & Open Banking

- API Banking fundamentals
- Open Banking ecosystem
- Banking-as-a-Service (BaaS)
- Embedded Finance trends

- API Banking architecture
- **Case Study:** Building an Open Banking ecosystem for a digital bank.

Module 2: Banking API Design & Development

- REST API principles
- API documentation using Swagger/OpenAPI
- JSON/XML messaging
- API versioning
- Banking API standards
- **Case Study:** Designing Customer Account APIs for retail banking.

Module 3: API Security & Regulatory Compliance

- OAuth 2.0 implementation
- OpenID Connect
- JWT authentication
- API Gateway security
- PSD2, PCI DSS, GDPR, KYC & AML compliance
- **Case Study:** Securing payment APIs against cyber threats.

Module 4: Payment APIs & Digital Banking Integration

- Payment initiation APIs
- Account Information Services (AIS)
- Payment Service Providers (PSP)
- Real-Time Payments
- ISO 20022 messaging
- **Case Study:** Integrating digital wallet payment APIs.

Module 5: API Management & Cloud Banking

- API Gateway platforms
- API lifecycle management
- API analytics
- Cloud-native banking
- API monetization
- **Case Study:** Enterprise API Management implementation.

Module 6: API Testing, Monitoring & DevSecOps

- Postman testing
- API automation
- Performance testing
- CI/CD integration
- API monitoring
- **Case Study:** Continuous deployment pipeline for banking APIs.

Module 7: AI, Microservices & Emerging Banking Technologies

- AI-powered banking APIs
- Generative AI integration

- Microservices architecture
- Event-driven banking
- Containerization using Docker & Kubernetes
- **Case Study:** AI-enabled customer service API implementation.

Module 8: Enterprise API Banking Implementation

- Digital transformation roadmap
- Enterprise integration patterns
- Governance framework
- Banking innovation strategy
- Best practices and future trends
- **Case Study:** End-to-end API Banking implementation for a multinational financial institution.

Training Methodology

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

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
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