



API Management & Integration Professional

15 – 19 August 2027
Istanbul (Turkey)





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Introduction

The API Management & Integration Professional course builds a strong theoretical foundation in modern API ecosystems and enterprise integration environments. The course explores how application programming interfaces enable digital transformation, system interoperability, and scalable platform architectures. It provides structured knowledge covering API design principles, lifecycle management, governance models, and integration strategies. Participants gain a clear understanding of how APIs support cloud services, microservices, and digital platforms. The course emphasizes standardized frameworks, security controls, and performance optimization concepts. It also explains how organizations manage APIs as strategic digital assets across business and technology functions.

Targeted Groups

This API Management & Integration Professional training targets professionals seeking knowledge and skills:

- Software developers working with enterprise systems.
- Integration engineers handling system connectivity.
- IT architects designing digital platforms.
- Digital transformation specialists.
- Technical project managers.
- Middleware and integration analysts.
- Cloud computing professionals.
- IT governance and compliance officers.
- Business analysts collaborating with technical teams.

Course Objectives

Participants will achieve the following objectives by completing the API Management & Integration Professional course:

- Understand core API management concepts.
- Explain the role of APIs in digital transformation.
- Identify different API architectural styles.
- Recognize API lifecycle management stages.
- Analyze API governance frameworks.
- Understand API security fundamentals.
- Interpret authentication and authorization models.
- Explain integration patterns and approaches.
- Distinguish between synchronous and asynchronous APIs.
- Understand API documentation standards.
- Identify performance and scalability concepts.
- Recognize monitoring and analytics functions.
- Understand API versioning strategies.
- Explain error handling principles.
- Analyze integration risks and controls.
- Understand cloud-based API platforms.
- Recognize enterprise integration challenges.
- Explain API monetization concepts.

Targeted Competencies

Participants will gain the following competencies during the API Management & Integration Professional program:

- Conceptual understanding of API ecosystems.
- Knowledge of enterprise integration architecture.
- Ability to analyze API lifecycle models.
- Understanding of API governance structures.
- Awareness of API security frameworks.
- Familiarity with REST and event-driven concepts.
- Understanding of data exchange standards.
- Ability to interpret API performance metrics.
- Knowledge of integration platform components.
- Awareness of API documentation practices.
- Understanding of system interoperability concepts.
- Ability to evaluate integration strategies.

Studying Scenarios

In this API Management & Integration Professional training, participants develop skills through the following scenarios:

- Enterprise systems require secure data exchange.
- Digital platforms integrating multiple applications.
- Organizations standardizing API governance models.
- Cloud migration involving API-enabled services.
- Legacy systems connected through middleware.
- High-traffic APIs requiring performance control.
- Cross-department systems integration planning.
- API lifecycle management across business units.

Course Content

Unit 1: Foundations of API Management

- Definition and purpose of application programming interfaces.
- Role of APIs in modern digital business models.
- Evolution of APIs in enterprise environments.
- Differences between internal, partner, and public APIs.
- Overview of API management platforms.
- Core components of API gateways.
- API consumers and provider relationships.
- Business value of structured API strategies.

Unit 2: API Design Principles and Standards

- Fundamental API design concepts.
- Importance of consistency in API structures.
- Resource-based API modeling concepts.
- Request and response message formats.
- Data serialization principles.
- API naming conventions and readability.
- Error handling design approaches.
- API versioning concepts and lifecycle impact.
- Documentation standards for API usability.
- Contract-first and design-first approaches.
- OpenAPI specification concepts.
- API usability and developer experience theory.

Unit 3: API Lifecycle Management and Governance

- API lifecycle stages from design to retirement.
- Governance objectives in API management.
- API policy frameworks and controls.
- Standardization across enterprise APIs.
- Role of governance committees and ownership.
- Approval workflows and change management.
- Managing API dependencies.
- API catalog and discovery concepts.
- Documentation governance principles.
- Version control and backward compatibility.
- API reuse and scalability planning.
- Compliance alignment within API environments.
- Managing technical debt in API ecosystems.

Unit 4: API Security, Performance, and Monitoring

- API security fundamentals and threat landscape.
- Authentication and authorization concepts.
- Token-based access models.
- Identity integration fundamentals.
- Data protection and encryption concepts.
- Rate limiting and traffic control principles.
- API throttling strategies.
- Protecting APIs from misuse.
- Logging and audit trail concepts.
- Monitoring API availability and uptime.
- Performance measurement indicators.
- Latency and response time analysis.
- Error tracking and incident visibility.
- Security governance alignment.

Unit 5: Integration Architecture and Enterprise Connectivity

- Overview of enterprise integration concepts.
- API-led connectivity principles.
- Integration layers and system interaction.
- Role of middleware platforms.
- Data transformation fundamentals.
- Orchestration versus choreography concepts.
- Event-driven integration models.
- Synchronous and asynchronous communication.
- Microservices integration architecture.
- Cloud-native integration concepts.
- Hybrid integration environments.
- Legacy system integration strategies.
- Integration scalability planning.
- Managing integration complexity.
- Aligning APIs with business processes.
- Theoretical models for digital platform integration.

Final Insights & Key Takeaways

This course provides a structured theoretical understanding of API management and integration within modern digital enterprises. Participants gain clarity on how APIs function as strategic enablers for scalability, interoperability, and sustainable digital transformation.