

BTP Integration Suite Event Mesh and API Management Training

COURSE CONTENT

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About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

About Course

BTP Integration Suite Event Mesh and API Management Training by Multisoft Systems is designed to help professionals build modern, scalable, and secure integrations on SAP Business Technology Platform. In today's connected landscape, enterprises need both real-time event-driven communication and well-governed APIs to connect applications, data, and partners across cloud and on-premise environments.

Module 1: Introduction to SAP BTP Integration Suite

- ✓ Overview of SAP BTP and Integration Suite
- ✓ Integration landscape - cloud, hybrid, on-premise connectivity
- ✓ Key capabilities - API-led, event-driven, process integration
- ✓ Integration patterns and best practices
- ✓ Reference architectures and real-world use cases

Module 2: Event-Driven Architecture Fundamentals

- ✓ What is event-driven architecture (EDA)
- ✓ Events vs messages - key differences
- ✓ Pub/Sub model - topics, queues, subscriptions
- ✓ Event producers and consumers
- ✓ Reliability concepts - delivery modes, ordering, retries

Module 3: SAP Event Mesh - Core Concepts and Components

- ✓ Event Mesh overview and use cases
- ✓ Topics, queues, and subscription types
- ✓ Message formats and payload handling
- ✓ Access control basics for messaging
- ✓ Naming conventions and design guidelines

Module 4: Event Mesh Setup and Configuration

- ✓ Enabling Event Mesh on SAP BTP
- ✓ Instance creation and service keys
- ✓ Managing messaging clients and permissions
- ✓ Creating and managing queues and topics
- ✓ Subscription creation and message routing setup

Module 5: Event Mesh Integration Patterns

- ✓ Publish/Subscribe pattern implementation
- ✓ Point-to-point and fan-out patterns
- ✓ Event filtering and topic hierarchies
- ✓ Error handling, dead-letter queues (DLQ) concepts
- ✓ Designing decoupled integrations for scalability

Module 6: Event Mesh Operations and Monitoring

- ✓ Monitoring message flow and queue depth
- ✓ Handling failures and retries
- ✓ Performance considerations and throughput planning
- ✓ Operational troubleshooting best practices
- ✓ Governance for event-driven integration

Module 7: API Management Fundamentals

- ✓ API management concepts and business value
- ✓ API lifecycle - design, publish, version, retire
- ✓ API proxy concept and backend services
- ✓ API consumers - internal and external use
- ✓ Governance and standardization

Module 8: API Design and Proxy Creation

- ✓ REST API basics for enterprise integration
- ✓ Creating API proxies for backend endpoints
- ✓ Defining resources, methods, and request/response mapping
- ✓ Handling headers, query parameters, payloads
- ✓ API documentation basics and developer experience

Module 9: API Security and Access Control

- ✓ Authentication vs authorization
- ✓ OAuth 2.0 concepts (high-level + practical use)
- ✓ API keys and app registration concepts
- ✓ Certificates and secure communication (TLS/HTTPS)
- ✓ Common security policies and best practices

Module 10: Traffic Management and Policy Implementation

- ✓ Rate limiting and throttling
- ✓ Quotas and spike arrest
- ✓ Caching strategies for performance
- ✓ Request/response transformations
- ✓ Error handling and fault rules

Module 11: API Publishing, Catalog, and Developer Portal Concepts

- ✓ Publishing APIs for consumption
- ✓ API products and plans (where applicable)
- ✓ Versioning strategies and backward compatibility
- ✓ Consumer onboarding and access enablement
- ✓ Governance workflows and approvals

Module 12: API Analytics, Monitoring, and Troubleshooting

- ✓ Monitoring API performance and availability
- ✓ Usage analytics and reporting insights
- ✓ Logs, tracing, and debugging API calls
- ✓ Common issues and resolution approach
- ✓ Operational best practices and maintenance

Module 13: Designing Hybrid Integration with APIs + Events

- ✓ When to use APIs vs events - decision framework?
- ✓ Building end-to-end integration architecture
- ✓ Real-time event notifications + API consumption model
- ✓ Security and governance alignment for both layers
- ✓ Reliability, scaling, and performance planning