# SAP BTP Cloud Integration Training

*COURSE CONTENT*

## About Multisoft

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## About Course

SAP BTP Cloud Integration Training by Multisoft Systems is designed to help professionals build strong integration skills for modern enterprise landscapes. This training focuses on enabling seamless connectivity between SAP and non-SAP applications across cloud, hybrid, and on-premise environments. As organizations increasingly adopt SAP S/4HANA and cloud-based solutions, effective system integration becomes critical for smooth business operations.

## Module 1: Introduction to SAP BTP and Cloud Integration

- ✓ Overview of SAP Business Technology Platform (BTP)
- ✓ Role of Cloud Integration in SAP landscapes
- ✓ Key features and capabilities of SAP BTP Cloud Integration
- ✓ Integration scenarios: cloud-to-cloud, cloud-to-on-premise, hybrid
- ✓ Understanding tenants, runtime, and environments

## Module 2: SAP BTP Cloud Integration Architecture

- ✓ SAP Cloud Integration components and services
- ✓ Integration Suite overview
- ✓ Message processing and runtime architecture
- ✓ Connectivity options and network considerations
- ✓ Integration content lifecycle

## Module 3: Getting Started with Cloud Integration

- ✓ Accessing SAP BTP Cloud Integration tenant
- ✓ Overview of Web UI and design tools
- ✓ Creating and configuring integration packages
- ✓ Basic integration flow (iFlow) concepts
- ✓ Deploying and activating iFlows

## Module 4: Integration Flow Design and Modeling

- ✓ iFlow structure and components
- ✓ Sender and receiver adapters
- ✓ Routing, filters, and conditional processing
- ✓ Content modifier and message mapping basics
- ✓ Exception handling and error subprocess

## Module 5: Adapters and Connectivity Options

- ✓ Overview of standard adapters
- ✓ HTTP, HTTPS, SOAP, IDoc, SFTP, OData adapters
- ✓ Configuring sender and receiver channels
- ✓ Adapter-specific parameters and properties
- ✓ Secure connectivity using SAP Cloud Connector

## Module 6: Data Mapping and Transformation

- ✓ Message mapping concepts
- ✓ Graphical message mapping
- ✓ XML and JSON transformations
- ✓ Using XSLT for advanced mapping
- ✓ Handling complex structures and value mappings

## Module 7: API-Based Integration

- ✓ Introduction to APIs in SAP Cloud Integration
- ✓ REST and SOAP services implementation
- ✓ API design and best practices
- ✓ Consuming external and SAP APIs
- ✓ Versioning and reuse of APIs

## Module 8: Security and User Management

- ✓ Authentication and authorization concepts
- ✓ Managing users, roles, and permissions
- ✓ Certificates, keystores, and credential management
- ✓ OAuth, Basic authentication, and token-based security
- ✓ Securing integration flows and endpoints

## Module 9: Monitoring and Troubleshooting

✓ Message monitoring and tracing

✓ Error analysis and log inspection

✓ Handling failed messages and retries

✓ Performance monitoring and optimization

✓ Alerts and notifications

## Module 10: Advanced Integration Concepts

✓ JMS queues and asynchronous messaging

✓ Groovy scripting in iFlows

✓ Externalized parameters and variables

✓ Reusable integration patterns

✓ Integration best practices

## Module 11: Deployment and Transport Management

✓ Transporting integration content across landscapes

✓ Version control and lifecycle management

✓ Backup and recovery strategies

✓ Managing updates and changes