

SAP CPI (Cloud Platform Integration) Course Content

1. Integration Fundamentals
2. SAP Integration Suite Overview
3. Integration Flow Development (Hands on)
4. Mapping (Hands on)
5. Adapters (Hands on)
6. Exception Handling and Monitoring
7. Security
8. API Management (Hands on)
9. Real-Time Scenarios
10. Advanced Topics

Integration Fundamentals

- EAI Concepts, Integration Patterns, Middleware Overview
- SOAP, REST, OData, IDoc, SFTP, JDBC, Mail Protocols
- XML, JSON, XSD, WSDL, XPath, XSLT Basics

SAP Integration Suite Overview

- Architecture, Tenant, Capabilities
- Cloud Integration, API Management, Open Connectors, Integration Advisor
- Web UI Navigation, Packages and Artifacts

Integration Flow Development (Hands on)

- Sender and Receiver Adapters
- Message Flow Model, Pools, Participants
- Content Modifier, Script, Router, Splitter, Gather, Aggregator
- Exchange Properties, Headers, and Camel Message Model

Mapping (Hands on)

- Message Mapping, Graphical Mapping, Mapping Functions
- XSLT Mapping, Groovy Scripting
- Value Mapping, Number Ranges, Lookup

Adapters (Hands on)

- SOAP, HTTP, OData, REST, SFTP, Mail, JDBC
- IDoc, ProcessDirect, JMS, AS2, Successfactors, ODC
- Authentication Types and Certificates

Exception Handling and Monitoring

- Exception Subprocess, Retry, Error Handling Strategies
- Message Monitoring, Log Levels, Trace Mode
- Data Stores, Variables, Alerts, JMS Queues

Security

- Keystore Management, Certificates, PGP, SSH Keys
- Credentials and User Roles, OAuth Authentication
- Digital Signature, Encryption

API Management (Hands on)

- API Provider, API Proxy, Policies, Products
- Developer Portal, Rate Limiting, Quotas, Analytics

Real-Time Scenarios

- S/4HANA to Third Party, SuccessFactors to Employee Central Payroll
- Ariba and Concur Integration, File to IDoc, Database to REST

Advanced Topics

- Integration Content Advisor, Event Mesh Overview
- CI/CD for Integration Content, Transport via Content Transport Service
- SAP PI/PO Migration to Cloud Integration (Concepts)