Integretion with SAP CPI (Cloud Platform Integration) Training Course

Professional Development Training Course Outline

Category	Enterprise Resource Planning (ERP)	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today’s fast-paced digital ecosystem, businesses require seamless integration of cloud and on-premise applications to drive operational efficiency, real-time data flow, and business agility. SAP Cloud Platform Integration (CPI) has emerged as a leading integration platform-as-a-service (iPaaS) that enables enterprises to connect SAP and non-SAP systems effortlessly. Integretion with SAP CPI (Cloud Platform Integration) Training Course is meticulously designed to equip participants with hands-on expertise in SAP CPI, covering essential concepts, integration patterns, API management, and advanced monitoring techniques. Participants will gain a thorough understanding of cloud-native integration, data orchestration, and end-to-end process automation, ensuring they can design, implement, and optimize complex integration scenarios.

Our SAP CPI training leverages a practical, case-driven approach, empowering learners to translate theoretical knowledge into real-world applications. By exploring pre-built content packages, adapters, and integration flows, participants will develop the skills necessary to handle diverse enterprise integration challenges. The course emphasizes best practices in security, scalability, and performance optimization, preparing professionals to contribute effectively to digital transformation initiatives. By the end of this program, learners will be proficient in deploying robust, maintainable, and high-performance integration solutions that drive business growth and operational excellence.

Programme Curriculum

Integretion with SAP CPI (Cloud Platform Integration) Training Course

Introduction

In today’s fast-paced digital ecosystem, businesses require seamless integration of cloud and on-premise applications to drive operational efficiency, real-time data flow, and business agility. SAP Cloud Platform Integration (CPI) has emerged as a leading integration platform-as-a-service (iPaaS) that enables enterprises to connect SAP and non-SAP systems effortlessly. Integretion with SAP CPI (Cloud Platform Integration) Training Course is meticulously designed to equip participants with hands-on expertise in SAP CPI, covering essential concepts, integration patterns, API management, and advanced monitoring techniques. Participants will gain a thorough understanding of cloud-native integration, data orchestration, and end-to-end process automation, ensuring they can design, implement, and optimize complex integration scenarios.

Our SAP CPI training leverages a practical, case-driven approach, empowering learners to translate theoretical knowledge into real-world applications. By exploring pre-built content packages, adapters, and integration flows, participants will develop the skills necessary to handle diverse enterprise integration challenges. The course emphasizes best practices in security, scalability, and performance optimization, preparing professionals to contribute effectively to digital transformation initiatives. By the end of this program, learners will be proficient in deploying robust, maintainable, and high-performance integration solutions that drive business growth and operational excellence.

Course Duration

5 days

Course Objectives

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

1. Understand the fundamentals of SAP CPI architecture and integration services.
2. Design and implement iPaaS solutions for hybrid landscapes.
3. Configure and manage pre-built integration content.
4. Develop custom integration flows using standard adapters.
5. Implement real-time and batch data integration scenarios.
6. Leverage API management and monitoring capabilities in SAP CPI.
7. Optimize integration performance and error handling mechanisms.
8. Apply security best practices including encryption and authentication.
9. Execute data transformation and mapping using XSLT, Groovy, and Message Mapping.
10. Integrate SAP and non-SAP systems for seamless process automation.
11. Utilize integration patterns and reusable templates for enterprise projects.
12. Perform end-to-end troubleshooting and monitoring of integration flows.
13. Implement cloud-native deployment strategies for scalable and resilient integrations.

Target Audience

1. SAP Integration Consultants
2. Cloud Solution Architects
3. SAP Basis Administrators
4. Middleware Developers
5. Enterprise Application Developers
6. Business Process Analysts
7. IT Project Managers
8. Technical Leads & Solution Designers

Course Modules

Module 1: Introduction to SAP CPI

- Overview of SAP Integration Suite and CPI
- Architecture, deployment options, and components
- Key features and capabilities for hybrid integration
- Understanding tenants, subaccounts, and spaces
- Case Study: Migrating legacy SAP PI scenarios to SAP CPI

Module 2: Integration Flow Design

- Building iFlows for process automation
- Use of pre-packaged integration content
- Working with adapters
- Message transformation using Mapping and XSLT
- Case Study: Designing a purchase order integration between SAP S/4HANA and a third-party system

Module 3: API Management & Security

- API design, deployment, and consumption
- Authentication protocols
- Implementing encryption, certificates, and keys
- Securing integration endpoints
- Case Study: Securing cloud-to-cloud API integration for HR processes

Module 4: Data Transformation & Mapping

- Message mapping, graphical mapping, and script-based mapping
- Content modifier and router configurations
- Handling complex XML and JSON transformations
- Error handling and logging best practices
- Case Study: Transforming supplier invoice data for SAP Ariba integration

Module 5: Advanced Integration Patterns

- Asynchronous vs synchronous processing
- Splitter, aggregator, and multicast patterns
- Exception subprocesses and retry mechanisms
- Chaining integration flows for complex scenarios
- Case Study: Implementing real-time order-to-cash integration

Module 6: Monitoring & Troubleshooting

- Message monitoring, alerts, and traceability
- Integration flow lifecycle management
- Performance tuning and load balancing
- Logging and error handling strategies
- Case Study: Identifying and resolving bottlenecks in multi-system integrations

Module 7: Deployment & Version Control

- Deployment options and managing transport workflows
- Versioning of iFlows and artifacts

- Integration with CI/CD pipelines
- Backup and rollback strategies
- Case Study: Automating SAP CPI deployment in a multi-environment setup

Module 8: Real-Time Project Simulation & Best Practices

- End-to-end project simulation
- Application of integration best practices
- KPI measurement and process optimization
- Collaboration between functional and technical teams
- Case Study: End-to-end integration of SAP S/4HANA, SuccessFactors, and Salesforce

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- 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