

C_CPI: SAP Integration Suite on BTP (CPI)

Design, secure and monitor integration flows on SAP BTP and prepare for the SAP Integration Suite exam.

DURATION

4 days · 32 hours

LEVEL

Advanced

CURRICULUM

13 modules · 11 labs

DELIVERY

Live online, Onsite,
Corporate

Course overview

Modern SAP landscapes connect S/4HANA, SuccessFactors, Ariba and many third-party systems, and SAP Integration Suite on the Business Technology Platform is the main tool for doing so. Integration developers who can design reliable, secure flows are in steady demand across Indian delivery centres. This four-day course teaches that work hands-on.

Day one sets the context: the SAP BTP account model with global accounts, subaccounts, entitlements and service instances, then the capabilities of Integration Suite. You will provision a trial tenant, explore the Discover catalogue of prepackaged content and build a first integration flow.

Days two and three go deep on Cloud Integration. You will configure sender and receiver adapters for HTTP, SOAP, OData, SFTP and IDoc, route and split messages, and transform payloads with content modifiers, converters, message mapping and Groovy scripts. Security artefacts — user credentials, OAuth, keystores and PGP — are covered alongside exception handling.

Day four focuses on operations and the wider suite: monitoring messages, tracing and logging, managing artefacts and transports, an introduction to API Management with API proxies and policies, and an overview of Event Mesh for event-driven integration. The day ends with an exam readiness session.

This course is aligned to the SAP Certified Associate – Integration Developer exam (C_CPI). Ace Skills is not an SAP partner and this is not official SAP training. SAP exam codes carry a release suffix and are refreshed periodically, so please confirm the current code on SAP Learning before booking.

Highlights

- 32 hours of live, trainer-led sessions
- Build iFlows in an SAP BTP trial tenant
- HTTP, SOAP, OData, SFTP and IDoc adapters
- Message mapping and Groovy scripting labs
- API Management and Event Mesh introduction
- Practice questions with review

What's included

- SAP BTP trial tenant setup guidance
- End-to-end iFlow builds with real adapters
- Message mapping and Groovy scripting labs
- Security artefact and OAuth configuration
- Monitoring and troubleshooting walkthroughs
- API Management proxy and policy lab
- Course completion certificate from Ace Skills Consulting
- Post-training doubt support

Who this course is for

Who should attend

- SAP PI/PO developers moving to the cloud
- Integration and middleware developers
- ABAP developers expanding into BTP
- SAP technical consultants on S/4HANA projects
- Solution architects planning SAP integration

Prerequisites

- Understanding of XML, JSON and web services basics
- Some programming or scripting experience
- Awareness of SAP systems is helpful but not required

Detailed curriculum — 4 days, 32 hours, 13 modules, 11 hands-on labs

Day 1 SAP BTP and Integration Suite Foundations

8 hours

1.1 SAP BTP account model

- Global accounts and subaccounts
- Entitlements and quotas
- Role collections and users
- Directories, regions and environments
- Service instances and subscriptions

LAB Set up a BTP trial subaccount and subscribe to Integration Suite · 40 min

1.2 Integration Suite capabilities

- Cloud Integration
- Integration Advisor and Trading Partner Management overview
- Integration Assessment
- API Management
- Event Mesh and Open Connectors overview

LAB Activate capabilities and explore the Discover catalogue · 30 min

1.3 First integration flow

- Integration packages and artefacts
- Sender, receiver and integration process
- Message headers and properties
- The iFlow editor
- Deploying and testing an iFlow

LAB Build and deploy a first HTTP iFlow · 50 min

Day 2 Adapters and Message Processing

8 hours

2.1 Adapters

- HTTPS sender and HTTP receiver
- OData adapter and query building
- IDoc adapter with S/4HANA
- SOAP adapter
- SFTP adapter and connectivity
- Cloud Connector overview

LAB Read data from an OData service and expose it over SOAP · 55 min

2.2 Routing and splitting

- Content-based router
- General and iterating splitters
- Request-reply and local integration processes
- Multicast and join
- Gather and aggregator

LAB Route and split orders by content · 45 min

2.3 Message transformation

- Content modifier
- Filters and encoders
- Converters: XML, JSON, CSV
- Externalised parameters

LAB Convert and enrich a payload · 35 min

Day 3 Mapping, Scripting and Security

8 hours

3.1 Message mapping

- Source and target structures
- Context handling and queues
- XSLT mapping overview
- Standard and custom functions
- Value mapping

LAB Map a purchase order between two formats · 50 min

3.2 Groovy scripting

- Script steps and the Message object
- Parsing XML and JSON in Groovy
- Script collections
- Reading and setting headers and properties
- Logging attachments for debugging

LAB Write a Groovy script to transform and log a message · 50 min

3.3 Security artefacts

- User credentials and secure parameters
- Keystore, certificates and known hosts
- Inbound authentication options
- OAuth2 client credentials
- PGP encryption and signing

LAB Secure an iFlow with OAuth and a keystore entry · 40 min

Day 4 Operations, API Management, Event Mesh and Exam Readiness

8 hours

4.1 Monitoring and exception handling

- Message processing monitor
- Exception subprocesses
- Artefact and content transport
- Trace and log levels
- Data stores, variables and JMS queues

LAB Trace a failed message and add exception handling · 45 min

4.2 API Management basics

- API proxies and providers
- Products and the developer hub
- Policies: quota, spike arrest, verify API key
- API analytics overview

LAB Publish an API proxy with policies · 45 min

4.3 Event Mesh overview

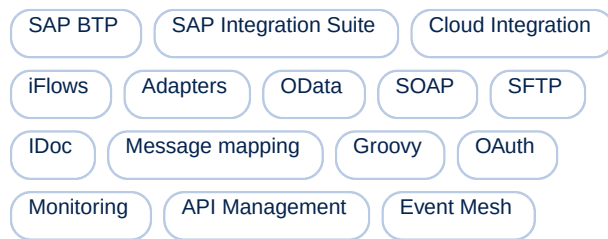
- Event-driven architecture concepts
- S/4HANA business events
- Queues, topics and subscriptions
- Connecting events to Cloud Integration

4.4 Exam readiness

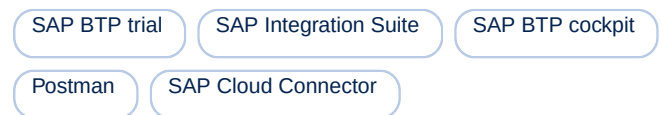
- C_CPI topic review
- Practice questions with review
- Question styles
- Confirming the current exam release on SAP Learning

Skills and tools

Skills you will build



Tools used in class



Certification exam

This course is aligned to the exam below and prepares you for it. The exam itself is booked and taken with the vendor.

Exam SAP Certified Associate – Integration Developer

Exam code C_CPI

Official page <https://learning.sap.com/certifications>

Exam skill areas covered

Exam details are pending verification. Confirm the current exam code, format and fee on the official vendor page before booking.

Frequently asked questions

Which exam code should I book?

SAP adds a release suffix to C_CPI and refreshes it periodically. Check SAP Learning for the current code and title before booking.

Is this official SAP training?

No. It is an independent Ace Skills course aligned to the published exam topics, and Ace Skills is not an SAP partner.

Do I need an SAP BTP account?

A free SAP BTP trial is enough for the labs; we help you set it up before Day 1.

Do I need to know Groovy or Java?

No. Groovy is taught from the basics needed for integration scripts, though any scripting experience helps.

Book a batch or talk to an advisor

Course page: aceskillsconsulting.com/course/c-cpi-sap-integration-suite-btp · Email: info@aceskillsconsulting.com

Chennai office

Guindy, Chennai, Tamil Nadu

Delhi office

B-95, Old Post Office Street, Shakarpur

New Delhi 110092

Office: 98180 12523

SAP, SAP S/4HANA, SAP BTP, SAP Fiori, SAP SuccessFactors, SAP Ariba, SAP Analytics Cloud, SAP BW/4HANA and ABAP are trademarks or registered trademarks of SAP SE or its affiliates. All product names, logos, brands, trademarks and registered trademarks are the property of their respective owners. Ace Skills Consulting is an independent training provider; unless explicitly stated, it is not affiliated with, endorsed by or sponsored by any vendor mentioned on this site. Exam details are provided for guidance and may change — always confirm on the vendor's official website. Curriculum generated on 23 Oct 2026; topics and order may be adjusted by the trainer to suit each batch.