

# SAP CPI

32 Hours

## Course Description

The SAP BTP and Cloud Integration Training Course is designed to provide in-depth knowledge and hands-on experience in utilizing the SAP Business Technology Platform (BTP) and the Integration Suite for seamless cloud integration. This comprehensive course covers various aspects of SAP's integration capabilities, including Cloud Integration, API Management, Open Connectors, Integration Advisor, Trading Partner Management, SAP Event Mesh, and more. Participants will gain a deep understanding of cloud-based integration solutions and learn how to leverage SAP's cutting-edge tools to enhance business processes and data exchange.

## Audience

This course is ideal for:

- IT professionals and developers responsible for integrating SAP systems and other applications in a cloud environment.
- SAP administrators and architects looking to expand their knowledge of SAP's integration solutions.
- Business analysts and technical consultants involved in data and process integration projects.
- Anyone interested in understanding SAP's cloud integration offerings and their potential benefits.

## Pre-requisite Knowledge/Skills

Participants should have a basic understanding of SAP systems and cloud computing concepts. Familiarity with integration concepts is a plus but not mandatory.

## Course Objectives

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

- Understand the SAP BTP and Cloud Integration landscape and its components.
- Explore the capabilities of the SAP Integration Suite, including Cloud Integration, API Management, Open Connectors, and more.
- Design and implement integration flows using SAP Cloud Platform Integration (CPI).
- Monitor and manage message processing and integration content effectively.
- Learn about B2B integration solutions, such as ProcessDirect Adapter, AS2 sender, Integration Advisor, and Partner Directory.
- Utilize the SAP API Business Hub to access APIs and enhance integration solutions.
- Gain insights into productive scenarios like S/4HANA integration and SuccessFactors integration (hands-on experience not included).

# Course Outline

It's divided into 9 different modules.

## Module 1: SAP BTP - Overview

- 1.1 Introduction to SAP Business Technology Platform
- 1.2 Understanding the Cloud Integration Landscape
- 1.3 Different Environments in CPI: Neo vs. Cloud Foundry
- 1.4 SAP BTP Commercial Licensing Models
- 1.5 Different Licensing Models and Selecting the Right One for Your Client

## Module 2: SAP BTP Integration Suite - Overview

- 2.1 Introduction to SAP Integration Suite
- 2.2 Integration Suite Capabilities: Cloud Integration
- 2.3 Integration Suite Capabilities: API Management
- 2.4 Integration Suite Capabilities: Open Connectors
- 2.5 Integration Suite Capabilities: Integration Advisor
- 2.6 Integration Suite Capabilities: Trading Partner Management
- 2.7 Exploring SAP Event Mesh

## Module 3: SAP Cloud Platform Integration - Overview

- 3.1 High-Level View of Cloud Platform Integration (CPI) Architecture
- 3.2 Message Exchange in CPI
- 3.3 CPI to On-Premise Connectivity
- 3.4 Integration Solution: Cloud vs. On-Premise

## Module 4: Prepackage Content - Discover

- 4.1 Web UI
- 4.2 Components of Prepackage
- 4.3 Prepackage Content Configuration

## Module 5: Design Integration Flow

- 5.1 Available Options in CPI
- 5.2 Design Home Page
- 5.3 Integration Flow: Building and Configuration (All Palette Options)
- 5.4 Participants and Adapters
- 5.5 Process Design
- 5.6 Events and Event Handling
- 5.7 Mapping and Data Transformation
- 5.8 Overview of Groovy Scripting
- 5.9 Call and Routing in Integration Flows
- 5.10 Security and Data Protection
- 5.11 Persistence and Data Storage
- 5.12 Data Validation and Error Handling
- 5.13 Transport Options in Cloud Integration

## **Module 6: Monitoring and Operations View**

- 6.1 Overview of Monitoring
- 6.2 Monitoring Message Processing
- 6.3 Managing Integration Content
- 6.4 Understanding the Lifecycle of Data Processed in CPI
- 6.5 Security in Cloud Integration: Security Materials
- 6.6 Security in Cloud Integration: Key Stores and Connectivity Tests
- 6.7 Managing Data Stores
- 6.8 Working with Logs

## **Module 7: B2B Integration**

- 7.1 ProcessDirect Adapter
- 7.2 AS2 Sender Configuration
- 7.3 Utilizing Integration Advisor for B2B Integration
- 7.4 Partner Directory Setup
- 7.5 Monitoring B2B Integration Processes

## **Module 8: API Business Hub**

- 8.1 Exploring SAP API Business Hub
- 8.2 Utilizing SuccessFactors APIs
- 8.3 Leveraging CPI OData APIs
- 8.4 Integrating CPI with API Management

## **Module 9: Productive Scenarios**

- 9.1 S/4HANA Integration Using IDocs (No Hands-on)
- 9.2 SuccessFactors Integration (No Hands-on)
- 9.3 Open Connectors Integration (No Hands-on)