Web Services and BAPI Integration for SAP 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

Web Services and BAPI Integration for SAP Training Course is designed for professionals seeking to master the integration of SAP with external systems and applications through web services and BAPI (Business Application Programming Interface). As enterprises continue to evolve digitally, seamless system integration plays a pivotal role in ensuring the flow of information across various platforms. This course offers an in-depth understanding of web services integration, covering both SOAP and REST protocols, alongside a comprehensive guide on utilizing BAPIs for efficient SAP communication. Participants will be empowered to implement cutting-edge integration strategies and streamline their organization's SAP ecosystem, which is essential for businesses aiming for increased productivity and operational efficiency in a competitive digital marketplace.

Throughout the course, learners will dive deep into the SAP architecture and explore enterprise service-oriented architecture (SOA). They will also gain practical expertise in web services security, troubleshooting integration issues, and working with advanced SAP tools such as SAP PI/PO (Process Integration/Process Orchestration) and SAP Cloud Platform Integration. Real-world case studies will be examined to help students understand the challenges and best practices in integrating SAP with external systems, enabling them to solve complex integration problems effectively. With a focus on hands-on learning, this course equips participants with the skills to optimize SAP workflows and connect diverse business applications for maximum efficiency and growth.

Programme Curriculum

Web Services and BAPI Integration for SAP Training Course

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Course Duration

5 days

Course Objectives

1. Understand the fundamentals of web services architecture and its role in SAP integration.
2. Learn how to use BAPI for integrating third-party applications with SAP.
3. Gain proficiency in SOAP and REST protocols for web services integration.
4. Master SAP PI/PO tools for connecting SAP systems with other external applications.
5. Develop skills to create secure web services for SAP integration.
6. Learn to troubleshoot common issues in SAP web services integration.
7. Understand how to handle data mapping and transformations in web services.
8. Explore the latest trends in cloud-based integration for SAP.
9. Integrate mobile applications with SAP using web services.
10. Understand the integration of SAP S/4HANA with external systems using BAPI.
11. Implement SAP Cloud Platform Integration for modern cloud environments.
12. Gain insight into performance optimization of SAP integrations.
13. Study real-world case studies to solve complex integration challenges.

Target Audience

1. SAP Consultants
2. SAP Developers
3. Integration Specialists
4. IT Professionals working with SAP systems
5. SAP Technical Architects
6. Business Analysts focused on SAP environments
7. Project Managers overseeing SAP implementations
8. Cloud Solution Architects interested in SAP integrations

Course Modules

Module 1: Introduction to Web Services & SAP Integration

- Overview of Web Services
- Role of Web Services in SAP Integration
- Introduction to BAPI and its importance in SAP
- SAP PI/PO architecture for integration
- Case Study: Integrating SAP with a third-party application using SOAP

Module 2: SAP BAPI Fundamentals

- Understanding BAPI architecture in SAP
- BAPI methods and their usage
- BAPI for data retrieval and updates
- Testing and debugging BAPI calls
- Case Study: Using BAPI to connect SAP with an external CRM system

Module 3: SOAP and REST Protocols

- Deep dive into SOAP web services and their usage in SAP
- Understanding REST APIs in SAP integration
- Creating and consuming SOAP/REST services
- Handling data in SOAP and REST requests
- Case Study: RESTful SAP integration with mobile devices

Module 4: SAP PI/PO Integration

- Overview of SAP PI/PO tools and capabilities
- Configuring SAP PI/PO for web service integration
- Message mapping and transformation techniques
- Monitoring and error handling in SAP PI/PO
- Case Study: Implementing SAP PI/PO to integrate SAP with a payment gateway

Module 5: Security in Web Services for SAP

- Key principles of web services security
- Authentication and authorization techniques in SAP
- Best practices for securing SOAP and REST services
- Implementing SSL and encryption in SAP web services
- Case Study: Securing SAP integrations with external cloud applications

Module 6: Troubleshooting SAP Web Services Integration

- Common issues in web services and BAPI integration
- Tools for diagnosing integration problems
- Debugging techniques for SOAP and REST services
- Optimizing error handling and reporting
- Case Study: Resolving data consistency issues in SAP BAPI calls

Module 7: Cloud Integration with SAP

- Overview of SAP Cloud Platform and its integration capabilities
- Integrating SAP S/4HANA with cloud applications

- API management and integration in cloud environments
- Key considerations for hybrid cloud integration
- Case Study: Migrating SAP integrations to the cloud

Module 8: Advanced Integration Techniques & Optimization

- Performance tuning for SAP integrations
- Handling large datasets in SAP integration
- Strategies for optimizing SAP web services and BAPI calls
- Real-time data integration in SAP
- Case Study: Optimizing SAP integrations for large-scale enterprise systems

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

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