

# BIT500

## SAP Java Process Integration

### COURSE OUTLINE

Course Version: 22

Course Duration:

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# Typographic Conventions

American English is the standard used in this handbook.

The following typographic conventions are also used.

This information is displayed in the instructor's presentation	
Demonstration	
Procedure	
Warning or Caution	
Hint	
Related or Additional Information	
Facilitated Discussion	
User interface control	<i>Example text</i>
Window title	<i>Example text</i>

# Preparing for Your SAP Live Class

## Required Equipment for Your SAP Live Class

- PC or Mac
- Integrated or external web cam
- Headset with integrated mic
- Stable internet connection

You can test if your setup is working correctly by using this link: <https://sap.zoom.us/test>

We recommend that you connect two monitors to your PC so that you can manage the course content more efficiently. This will reduce the need for you to switch (alt+tab) between the applications we use in class.

## Getting the Most Out of Your SAP Live Class

- Make sure you have setup and thoroughly tested the SAP Live Class environment and resolved any issues well before the class begins. Refer to the separate instructions that you were sent for setup instructions and support contact information.
- Keep your web cam activated during the training sessions. You can switch it off during breaks if you prefer.
- Use a headset with an integrated mic to ensure a high-quality audio experience for both you and the other participants. Laptop speakers and mic produce poor quality sound and introduce background noise that can disturb the class.
- Make sure you are in a quiet area where you will not be disturbed.
- Be ready to use the mute feature to ensure any background noise does not disturb the class.
- Turn off email, phones, instant messaging tools, and clear other distractions away from your training area.
- Actively participate and prepare to be called on by name.
- Be patient waiting for a response to your chat messages.
- Always ask the instructor for assistance if you need help with an exercise. Don't get left behind.
- Be ready to begin class on time so you do not delay the start of each session.
- During breaks, make sure you take the opportunity to get out of your chair and stretch.
- Please raise any concerns relating to the SAP Live Class experience with your instructor at the time they arise so that they can be quickly addressed.

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# Course Overview

## **TARGET AUDIENCE**

This course is intended for the following audiences:

- Project Manager
- Application Consultant
- Development Consultant
- Technology Consultant
- Super / Key / Power User
- Developer
- Enterprise Architect
- Solution Architect
- System Administrator
- System Architect



## **Lesson 1: Explaining how the Recent Rebranding Displays in This Material**

### **Lesson Objectives**

After completing this lesson, you will be able to:

- Explain how the recent rebranding displays in this material

## **Lesson 2: SAP Business Technology Platform (BTP)**

### **Lesson Objectives**

After completing this lesson, you will be able to:

- Explain the SAP Business Technology Platform

## **Lesson 3: Explaining the Enterprise Service Bus**

### **Lesson Objectives**

After completing this lesson, you will be able to:

- Explain the Enterprise Service Bus

## **Lesson 4: Describing SAP Process Integration Architecture**

### **Lesson Objectives**

After completing this lesson, you will be able to:

- Explain SAP Process Integration architecture
- Navigate to the Enterprise Services Repository (ESR)
- Navigate to the Integration Builder
- Configure the Integration Designer in Eclipse

## **Lesson 5: Using the SAP NetWeaver Developer Studio (NWDS) 7.5**

### **Lesson Objectives**

After completing this lesson, you will be able to:

- Work with SAP NWDS 7.5

## **Lesson 6: Explaining the Uses and Functionality of SAP Process Orchestration and the Advanced Adapter Engine (AEX)**

### **Lesson Objectives**

After completing this lesson, you will be able to:

- Explain SAP Process Orchestration and the Advanced Adapter Engine (AEX)

## Lesson 1: Maintaining Products and Software Components in the System Landscape Directory (SLD)

### Lesson Objectives

After completing this lesson, you will be able to:

- Use product and software component terminology
- Create products and software components in the System Landscape Directory (SLD)
- Import Software Components from SLD into the Enterprise Service Repository (ESR)

## Lesson 2: Implementing Technical Systems in the SLD

### Lesson Objectives

After completing this lesson, you will be able to:

- Implement technical systems in the System Landscape Directory (SLD)
- Maintain the SAP NetWeaver Application Server for Java in the SLD
- Create Third-Party Technical Systems in the SLD

## Lesson 3: Maintaining Business Systems for use in the Integration Directory (ID)

### Lesson Objectives

After completing this lesson, you will be able to:

- Maintain Business Systems in the SLD
- Import a business system into the SLD



## Lesson 1: Listing Options for Navigating the ESR

### Lesson Objectives

After completing this lesson, you will be able to:

- Use the Enterprise Services Browser in Enterprise Services Repository Perspective in SAP NWDS
- Access the ESR objects
- Search the ESR objects

## Lesson 2: Analyzing Interface Objects in the ESR: Data Types

### Lesson Objectives

After completing this lesson, you will be able to:

- Display data types

## Lesson 3: Analyzing Interface Objects in the ESR: Message Types

### Lesson Objectives

After completing this lesson, you will be able to:

- Create message types

## Lesson 4: Maintaining Interface Objects

### Lesson Objectives

After completing this lesson, you will be able to:

- Create interface objects
- Import Interface Objects into the ESR

## Lesson 5: Defining Message Processing Types and Quality of Services (QoS)

### Lesson Objectives

After completing this lesson, you will be able to:

- Define the QoS and message processing types

## Lesson 1: Creating Message Mapping Objects

### Lesson Objectives

After completing this lesson, you will be able to:

- Display a message mapping
- Create message mappings

## Lesson 2: Mapping Multiple Service Interfaces

### Lesson Objectives

After completing this lesson, you will be able to:

- Create an operation mapping in the ESR



## Lesson 1: Creating Communication Channels in the Integration Directory (ID)

### Lesson Objectives

After completing this lesson, you will be able to:

- Create a communication channel

## Lesson 2: Creating and Deploying Integration Flows to the Advanced Adapter Engine Extended (AEX)

### Lesson Objectives

After completing this lesson, you will be able to:

- Create an AEX integration flow

## Lesson 3: Validating XML

### Lesson Objectives

After completing this lesson, you will be able to:

- Validate XML



## Lesson 1: Using the Process Integration Monitoring (PIMon) Home

### Lesson Objectives

After completing this lesson, you will be able to:

- Access SAP Process Integration Monitoring

## Lesson 2: Using the SAP NetWeaver Administrator

### Lesson Objectives

After completing this lesson, you will be able to:

- Use the SAP NetWeaver Administrator functionality

## Lesson 3: Explaining Logging and Staging

### Lesson Objectives

After completing this lesson, you will be able to:

- Explain the difference between logging and staging
- Configure the logging and staging behavior



## Lesson 1: Analyzing Connectivity Options Between Back-End Systems with SAP Process Integration

### Lesson Objectives

After completing this lesson, you will be able to:

- Use different adapters



## Lesson 1: Using the HTTP\_AAE (Java) Adapter

### Lesson Objectives

After completing this lesson, you will be able to:

- Use the HTTP\_AAE (Java) adapter

## Lesson 2: Configuring the Simple Object Access Protocol (SOAP) Adapter

### Lesson Objectives

After completing this lesson, you will be able to:

- Configure the SOAP sender adapter
- Configure the SOAP receiver adapter

## Lesson 3: Using Proxy Technology

### Lesson Objectives

After completing this lesson, you will be able to:

- Use the proxy configuration
- Use the server proxy
- Use the client proxy
- Analyze the proxy configuration

## Lesson 4: Using Web Services

### Lesson Objectives

After completing this lesson, you will be able to:

- Use web services
- Create a web service based on proxy technology



## Lesson 1: Configuring the Receiver File Adapter

### Lesson Objectives

After completing this lesson, you will be able to:

- Configure the receiver File/FTP adapter

## Lesson 2: Configuring a Sender File Adapter

### Lesson Objectives

After completing this lesson, you will be able to:

- Configure the sender file adapter



## Lesson 1: Explaining the Architecture of the PIT Tool

### Lesson Objectives

After completing this lesson, you will be able to:

- Describe the architecture of the PIT tool

## Lesson 2: Setting Up the PIT Landscape

### Lesson Objectives

After completing this lesson, you will be able to:

- Set up the PIT landscape

## Lesson 3: Creating Test Cases

### Lesson Objectives

After completing this lesson, you will be able to:

- Create and execute a test case

## Lesson 4: Performing Verification

### Lesson Objectives

After completing this lesson, you will be able to:

- Perform verification

## Lesson 5: Managing Jobs

### Lesson Objectives

After completing this lesson, you will be able to:

- Work with jobs

## Lesson 6: Executing Tests Using the Web-Based User Interface

### Lesson Objectives

After completing this lesson, you will be able to:

- Use the web-based user interface

## Lesson 1: Describing Integration Challenges

### Lesson Objectives

After completing this lesson, you will be able to:

- Describe the integration challenges

## Lesson 2: Introducing SAP BTP - Integration Suite

### Lesson Objectives

After completing this lesson, you will be able to:

- Describe the basics of SAP BTP - Integration Suite

## Lesson 3: Using the Cloud Integration Content Management Cockpit

### Lesson Objectives

After completing this lesson, you will be able to:

- Use the Cloud Integration Management Cockpit

## Lesson 4: Using Monitoring

### Lesson Objectives

After completing this lesson, you will be able to:

- Use the monitoring



## Lesson 1: Explaining Other Connectivity Options

### Lesson Objectives

After completing this lesson, you will be able to:

- Explain other connectivity options

## Lesson 2: Using the REST Adapter

### Lesson Objectives

After completing this lesson, you will be able to:

- Use the REST adapter
- Expose a function module as RESTful service
- Consume a synchronous RESTful service



## Lesson 1: Using Context in Message Mapping

### Lesson Objectives

After completing this lesson, you will be able to:

- Explain queues in message mapping
- Explain the impact of context selection and deletion
- Use the message-mapping debug process

## Lesson 2: Mapping Multiple Messages

### Lesson Objectives

After completing this lesson, you will be able to:

- Map multiple messages