

CLD900

SAP Integration Suite

COURSE OUTLINE

Course Version: 20

Course Duration:

SAP Copyrights, Trademarks and Disclaimers

© 2023 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. Please see <https://www.sap.com/corporate/en/legal/copyright.html> for additional trademark information and notices.

Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors.

National product specifications may vary.

These materials may have been machine translated and may contain grammatical errors or inaccuracies.








These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP SE or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP SE or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platform directions and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions.

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> |

Contents

vii Course Overview

1 Unit 1: Introducing the SAP Integration Suite

- 1 Lesson: Explaining Distributed Architecture and Their Challenges
- 1 Lesson: Undergoing a First Approach With an API
- 1 Lesson: Describing Operating Modes of API Architectures
- 1 Lesson: Introducing REST
- 1 Lesson: Introducing OData
- 2 Lesson: Explaining SAP Graph

3 Unit 2: Introducing iPaaS

- 3 Lesson: Describing the integration Strategy of SAP
- 3 Lesson: Describing the SAP Integration Solution Advisory Methodology (ISA-M)
- 3 Lesson: Positioning of the Integration Suite From a More Technical Perspective

5 Unit 3: Managing APIs

- 5 Lesson: Introducing SAP API Management
- 5 Lesson: Describing the Technology in an Overview
- 5 Lesson: Creating an API Provider
- 5 Lesson: Creating an API
- 5 Lesson: Using Policies
- 5 Lesson: Editing APIs
- 6 Lesson: Creating a Product
- 6 Lesson: Using Logging and Monitoring

7 Unit 4: Managing Cloud Integration

- 7 Lesson: Introducing Cloud Integration
- 7 Lesson: Explaining the Development Cycle
- 7 Lesson: Using Message Monitoring and Logging
- 7 Lesson: Explaining the Camel Data Model and Simple Expression Language

9 Unit 5: Modeling Processes

| | |
|----|---|
| 9 | Lesson: Modeling Integration Flows in an Overview |
| 9 | Lesson: Learning the Basics |
| 9 | Lesson: Using Adapters |
| 9 | Lesson: Using Mappings |
| 9 | Lesson: Using Adapter Outbound Security |
| 9 | Lesson: Performing Exception Handling |
| 10 | Lesson: Using Scripting |
| 10 | Lesson: Using Adapter Inbound Security |
| 10 | Lesson: Using Integration Patterns |

Course Overview

TARGET AUDIENCE

This course is intended for the following audiences:

- Application Consultant
- Development Consultant
- Technology Consultant
- Industry / Business Analyst Consultant
- Super / Key / Power User
- Business Process Architect
- Business Process Owner/Team Lead/Power User
- Developer
- Solution Architect
- System Architect

Lesson 1: Explaining Distributed Architecture and Their Challenges

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the distributed architecture
- Describe the whole scenario

Lesson 2: Undergoing a First Approach With an API

Lesson Objectives

After completing this lesson, you will be able to:

- Describe concepts and basic elements of an API, first approach
- Create an account on the SAP Gateway demo system (ES5)

Lesson 3: Describing Operating Modes of API Architectures

Lesson Objectives

After completing this lesson, you will be able to:

- Describe operating modes of API architectures

Lesson 4: Introducing REST

Lesson Objectives

After completing this lesson, you will be able to:

- Introduce REST

Lesson 5: Introducing OData

Lesson Objectives

After completing this lesson, you will be able to:

- Introduce OData

Lesson 6: Explaining SAP Graph

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the concept behind SAP Graph and explore the potential for developing an API for SAP Graph

Lesson 1: Describing the integration Strategy of SAP

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the significance of integration within the realm of SAP BTP

Lesson 2: Describing the SAP Integration Solution Advisory Methodology (ISA-M)

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the SAP Integration Solution Advisory Methodology (ISA-M)

Lesson 3: Positioning of the Integration Suite From a More Technical Perspective

Lesson Objectives

After completing this lesson, you will be able to:

- Explore API management

Lesson 1: Introducing SAP API Management

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the key features of SAP API Management

Lesson 2: Describing the Technology in an Overview

Lesson Objectives

After completing this lesson, you will be able to:

- Gain a comprehensive understanding of how to effectively utilize the components of API Management within the SAP Integration Suite

Lesson 3: Creating an API Provider

Lesson Objectives

After completing this lesson, you will be able to:

- Learn how to create an API provider using the SAP Integration Suite

Lesson 4: Creating an API

Lesson Objectives

After completing this lesson, you will be able to:

- Create an API based on the API provider

Lesson 5: Using Policies

Lesson Objectives

After completing this lesson, you will be able to:

- Use policies

Lesson 6: Editing APIs

Lesson Objectives

After completing this lesson, you will be able to:

- Edit APIs

Lesson 7: Creating a Product

Lesson Objectives

After completing this lesson, you will be able to:

- Create a product

Lesson 8: Using Logging and Monitoring

Lesson Objectives

After completing this lesson, you will be able to:

- Use the different ways to log health data and messages, displayed in a monitor.

Lesson 1: Introducing Cloud Integration

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the complete Integration Flow process which we will implement in the next exercises

Lesson 2: Explaining the Development Cycle

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the development cycle

Lesson 3: Using Message Monitoring and Logging

Lesson Objectives

After completing this lesson, you will be able to:

- Use message monitoring and logging

Lesson 4: Explaining the Camel Data Model and Simple Expression Language

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the Camel data model and simple expression language

Lesson 1: Modeling Integration Flows in an Overview

Lesson Objectives

After completing this lesson, you will be able to:

- Model Integration Flows in an overview

Lesson 2: Learning the Basics

Lesson Objectives

After completing this lesson, you will be able to:

- Create and configure a content modifier

Lesson 3: Using Adapters

Lesson Objectives

After completing this lesson, you will be able to:

- Use adapters

Lesson 4: Using Mappings

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the utilization of mappings in the Integration Suite

Lesson 5: Using Adapter Outbound Security

Lesson Objectives

After completing this lesson, you will be able to:

- Utilize outbound security for adapters

Lesson 6: Performing Exception Handling

Lesson Objectives

After completing this lesson, you will be able to:

- Perform exception handling

Lesson 7: Using Scripting

Lesson Objectives

After completing this lesson, you will be able to:

- Use scripting

Lesson 8: Using Adapter Inbound Security

Lesson Objectives

After completing this lesson, you will be able to:

- Use and set up an inbound security adapter

Lesson 9: Using Integration Patterns

Lesson Objectives

After completing this lesson, you will be able to:

- Use integration patterns