CLD900
Introduction to SAP Cloud Platform Integration (CPI)

COURSE OUTLINE

Course Version: 17
Course Duration:
SAP Copyrights and Trademarks

© 2018 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 http://global12.sap.com/corporate-en/legal/copyright/index.epx 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 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.
American English is the standard used in this handbook.
The following typographic conventions are also used.

<table>
<thead>
<tr>
<th>Typographic Conventions</th>
<th>Example text</th>
</tr>
</thead>
<tbody>
<tr>
<td>This information is displayed in the instructor’s presentation</td>
<td></td>
</tr>
<tr>
<td>Demonstration</td>
<td></td>
</tr>
<tr>
<td>Procedure</td>
<td></td>
</tr>
<tr>
<td>Warning or Caution</td>
<td></td>
</tr>
<tr>
<td>Hint</td>
<td></td>
</tr>
<tr>
<td>Related or Additional Information</td>
<td></td>
</tr>
<tr>
<td>Facilitated Discussion</td>
<td></td>
</tr>
<tr>
<td>User interface control</td>
<td></td>
</tr>
<tr>
<td>Window title</td>
<td></td>
</tr>
</tbody>
</table>
# Contents

<table>
<thead>
<tr>
<th>vii</th>
<th>Course Overview</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Unit 1:</strong> Introduction to SAP Cloud Platform Integration</td>
</tr>
<tr>
<td>1</td>
<td>Lesson: Understanding the SAP Cloud Strategy</td>
</tr>
<tr>
<td>1</td>
<td>Lesson: Explaining the Positioning of SAP Cloud Platform Integration in the SAP Cloud Strategy</td>
</tr>
<tr>
<td>1</td>
<td>Lesson: Explaining the Positioning within the Application Integration and Infrastructure</td>
</tr>
<tr>
<td>1</td>
<td>Lesson: Performing a Classification according to ISA-M</td>
</tr>
<tr>
<td>1</td>
<td>Lesson: Exploring Use Cases</td>
</tr>
<tr>
<td>3</td>
<td><strong>Unit 2:</strong> Product Overview</td>
</tr>
<tr>
<td>3</td>
<td>Lesson: Explaining the Integration Platform-As-A-Service</td>
</tr>
<tr>
<td>3</td>
<td>Lesson: Explaining the Architecture</td>
</tr>
<tr>
<td>3</td>
<td>Lesson: Getting an Integration Capabilities Overview</td>
</tr>
<tr>
<td>3</td>
<td>Lesson: Explaining Connectivity and Converter Options</td>
</tr>
<tr>
<td>3</td>
<td>Lesson: Using Development Tools</td>
</tr>
<tr>
<td>5</td>
<td><strong>Unit 3:</strong> Basic Building Blocks (The Basic Integration Scenario)</td>
</tr>
<tr>
<td>5</td>
<td>Lesson: Explaining the Main Phases of an Integration Project</td>
</tr>
<tr>
<td>5</td>
<td>Lesson: Exploring the Elements of an Integration Flow, Deep Dive</td>
</tr>
<tr>
<td>5</td>
<td>Lesson: Using SAP Cloud Platform Integration, Integration Patterns</td>
</tr>
<tr>
<td>7</td>
<td><strong>Unit 4:</strong> Twitter Basic Scenario, Foundation</td>
</tr>
<tr>
<td>7</td>
<td>Lesson: Exploring the Complete Sample Process</td>
</tr>
<tr>
<td>7</td>
<td>Lesson: Configuring Inbound Communication</td>
</tr>
<tr>
<td>7</td>
<td>Lesson: Configuring Outbound Communication</td>
</tr>
<tr>
<td>7</td>
<td>Lesson: Using Events</td>
</tr>
<tr>
<td>7</td>
<td>Lesson: Using Persistence</td>
</tr>
<tr>
<td>9</td>
<td><strong>Unit 5:</strong> Twitter Basic Scenario, Advanced</td>
</tr>
<tr>
<td>9</td>
<td>Lesson: Using Calls in an Advanced Integration Scenario</td>
</tr>
<tr>
<td>9</td>
<td>Lesson: Explaining the Camel Message Model</td>
</tr>
<tr>
<td>9</td>
<td>Lesson: Manipulating the Message with Message Transformers</td>
</tr>
<tr>
<td>9</td>
<td>Lesson: Explaining Message Converters</td>
</tr>
<tr>
<td>9</td>
<td>Lesson: Using Mappings</td>
</tr>
<tr>
<td>9</td>
<td>Lesson: Using XST Mappings</td>
</tr>
<tr>
<td>Unit 6: Twitter Scenario, Extended</td>
<td></td>
</tr>
<tr>
<td>-----------------------------------</td>
<td></td>
</tr>
<tr>
<td>Lesson: Defining Message Routers</td>
<td></td>
</tr>
<tr>
<td>Lesson: Explaining Scripting in Message Processing</td>
<td></td>
</tr>
<tr>
<td>Lesson: Defining Additional Components</td>
<td></td>
</tr>
<tr>
<td>Lesson: Specifying the Runtime Configuration</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unit 7: Concepts of Secure Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lesson: Explaining Secure Communication</td>
</tr>
<tr>
<td>Lesson: Exploring Concepts of Secure Communication</td>
</tr>
<tr>
<td>Lesson: Explaining Security Elements Related to the Mail Adapter</td>
</tr>
<tr>
<td>Lesson: Explaining the Relation of Security Artifacts to Integration Flow Configuration</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unit 8: Other Security Aspects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lesson: Explaining the Technical Landscape</td>
</tr>
<tr>
<td>Lesson: Explaining Data Storage Security</td>
</tr>
<tr>
<td>Lesson: Perform User Management for Cloud Integration</td>
</tr>
<tr>
<td>Lesson: Adding Members to an Account</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unit 9: Operations and Monitoring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lesson: Explaining the Operating Model</td>
</tr>
<tr>
<td>Lesson: Explaining Web Based Monitoring</td>
</tr>
<tr>
<td>Lesson: Explaining Monitoring API's</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unit 10: The Neverbounce Scenario: a Use Case</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lesson: Performing the Complete Neverbounce Process: a Use Case</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unit 11: Additional Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lesson: Explaining Content Transport</td>
</tr>
<tr>
<td>Lesson: Explaining B2B Support</td>
</tr>
<tr>
<td>Lesson: Designing Cloud Integration Content for SAP Process Orchestration 7.5 SP10</td>
</tr>
</tbody>
</table>
TARGET AUDIENCE
This course is intended for the following audiences:

- Application Consultant
- Business Process Architect
- Business Process Owner/Team Lead/Power User
- Developer
- Development Consultant
- Solution Architect
- System Architect
- Technology Consultant
Lesson 1: Understanding the SAP Cloud Strategy

Lesson Objectives
After completing this lesson, you will be able to:

- Understand the SAP Cloud strategy

Lesson 2: Explaining the Positioning of SAP Cloud Platform Integration in the SAP Cloud Strategy

Lesson Objectives
After completing this lesson, you will be able to:

- Explain the positioning of SAP Cloud Platform Integration in the SAP Cloud strategy

Lesson 3: Explaining the Positioning within the Application Integration and Infrastructure

Lesson Objectives
After completing this lesson, you will be able to:

- Explain the positioning within the Application Integration and Infrastructure

Lesson 4: Performing a Classification according to ISA-M

Lesson Objectives
After completing this lesson, you will be able to:

- Perform a classification according to ISA-M

Lesson 5: Exploring Use Cases

Lesson Objectives
After completing this lesson, you will be able to:

- Explore Use Cases
Lesson 1: Explaining the Integration Platform-As-A-Service
Lesson Objectives
After completing this lesson, you will be able to:

- Explain Integration Platform-As-A-Service

Lesson 2: Explaining the Architecture
Lesson Objectives
After completing this lesson, you will be able to:

- Explain the architecture

Lesson 3: Getting an Integration Capabilities Overview
Lesson Objectives
After completing this lesson, you will be able to:

- Get an overview about integration capabilities

Lesson 4: Explaining Connectivity and Converter Options
Lesson Objectives
After completing this lesson, you will be able to:

- Explain connectivity and converter options

Lesson 5: Using Development Tools
Lesson Objectives
After completing this lesson, you will be able to:

- Use Development Tools
Lesson 1: Explaining the Main Phases of an Integration Project

Lesson Objectives
After completing this lesson, you will be able to:

• Explain the main phases of an integration project

Lesson 2: Exploring the Elements of an Integration Flow, Deep Dive

Lesson Objectives
After completing this lesson, you will be able to:

• Explore the elements of an integration flow

Lesson 3: Using SAP Cloud Platform Integration, Integration Patterns

Lesson Objectives
After completing this lesson, you will be able to:

• Use SAP Cloud Platform Integration, integration patterns
Lesson 1: Exploring the Complete Sample Process

Lesson Objectives
After completing this lesson, you will be able to:

- Explore the complete sample process

Lesson 2: Configuring Inbound Communication

Lesson Objectives
After completing this lesson, you will be able to:

- Configure inbound communication

Lesson 3: Configuring Outbound Communication

Lesson Objectives
After completing this lesson, you will be able to:

- Configure outbound communication

Lesson 4: Using Events

Lesson Objectives
After completing this lesson, you will be able to:

- Use events

Lesson 5: Using Persistence

Lesson Objectives
After completing this lesson, you will be able to:

- Use persistence
Lesson 1: Using Calls in an Advanced Integration Scenario

Lesson Objectives
After completing this lesson, you will be able to:

- Use calls in an advanced integration scenario

Lesson 2: Explaining the Camel Message Model

Lesson Objectives
After completing this lesson, you will be able to:

- Explain the Camel message model

Lesson 3: Manipulating the Message with Message Transformers

Lesson Objectives
After completing this lesson, you will be able to:

- Manipulate the message with message transformers

Lesson 4: Explaining Message Converters

Lesson Objectives
After completing this lesson, you will be able to:

- Explain message converters

Lesson 5: Using Mappings

Lesson Objectives
After completing this lesson, you will be able to:

- Use mappings

Lesson 6: Using XST Mappings

Lesson Objectives
After completing this lesson, you will be able to:

- Use XST mappings
Lesson 1: Defining Message Routers
Lesson Objectives
After completing this lesson, you will be able to:
• Define message routers

Lesson 2: Explaining Scripting in Message Processing
Lesson Objectives
After completing this lesson, you will be able to:
• Explain scripting in message processing

Lesson 3: Defining Additional Components
Lesson Objectives
After completing this lesson, you will be able to:
• Define additional components

Lesson 4: Specifying the Runtime Configuration
Lesson Objectives
After completing this lesson, you will be able to:
• Specify the runtime configuration
Lesson 1: Explaining Secure Communication

Lesson Objectives
After completing this lesson, you will be able to:

• Explain secure communication

Lesson 2: Exploring Concepts of Secure Communication

Lesson Objectives
After completing this lesson, you will be able to:

• Explore concepts of secure communication

Lesson 3: Explaining Security Elements Related to the Mail Adapter

Lesson Objectives
After completing this lesson, you will be able to:

• Explain security elements related to the mail adapter

Lesson 4: Explaining the Relation of Security Artifacts to Integration Flow Configuration

Lesson Objectives
After completing this lesson, you will be able to:

• Explain the relation of security artifacts to integration flow configuration
Lesson 1: Explaining the Technical Landscape
Lesson Objectives
After completing this lesson, you will be able to:
• Explain the technical landscape

Lesson 2: Explaining Data Storage Security
Lesson Objectives
After completing this lesson, you will be able to:
• Explain data storage security

Lesson 3: Perform User Management for Cloud Integration
Lesson Objectives
After completing this lesson, you will be able to:
• Perform user management for cloud integration

Lesson 4: Adding Members to an Account
Lesson Objectives
After completing this lesson, you will be able to:
• Add members to an account
Lesson 1: Explaining the Operating Model

Lesson Objectives
After completing this lesson, you will be able to:

• Explain the operating model

Lesson 2: Explaining Web Based Monitoring

Lesson Objectives
After completing this lesson, you will be able to:

• Explain web-based monitoring

Lesson 3: Explaining Monitoring API's

Lesson Objectives
After completing this lesson, you will be able to:

• Explain APIs for monitoring
Lesson 1: Performing the Complete Neverbounce Process: a Use Case

Lesson Objectives
After completing this lesson, you will be able to:

- Perform the complete neverbounce process
Lesson 1: Explaining Content Transport

Lesson Objectives
After completing this lesson, you will be able to:

• Explain content transport

Lesson 2: Explaining B2B Support

Lesson Objectives
After completing this lesson, you will be able to:

• Explain B2B support

Lesson 3: Designing Cloud Integration Content for SAP Process Orchestration 7.5 SP10

Lesson Objectives
After completing this lesson, you will be able to:

• Design cloud integration content for SAP Process Orchestration 7.5 SP10