

C4H341

SAP Commerce Cloud for Developers II

COURSE OUTLINE

Course Version: 2602

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>

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Course Overview

TARGET AUDIENCE

This course is intended for the following audiences:

- Development Consultant
- Technology Consultant
- Developer

Lesson 1: Explaining the Training Essentials

Lesson Objectives

After completing this lesson, you will be able to:

- Outline the training content and steps to access the virtual machine (VM).

Lesson 2: Outlining SAP Commerce Cloud Essentials

Lesson Objectives

After completing this lesson, you will be able to:

- Describe SAP Commerce Cloud platform architecture and basic essentials.

Lesson 3: Reviewing Part I Developer Training

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the core developer concepts introduced in part one of SAP Commerce Cloud training.

Lesson 4: Describing the Practice System Exercise Environment

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the steps for preparing and verifying practical exercises in the pre-configured SAP learning system.

Lesson 5: Outlining the Exercise Set up Process for the Training

Lesson Objectives

After completing this lesson, you will be able to:

- Prepare and set up the exercise environment in the pre-configured practice system by following the preparation steps.

Lesson 1: Getting an Overview of the Backoffice Framework

Lesson Objectives

After completing this lesson, you will be able to:

- Describe out-of-the-box features of the Backoffice framework in the SAP Commerce Cloud Backoffice Application.

Lesson 2: Managing Widgets in the Application Orchestrator

Lesson Objectives

After completing this lesson, you will be able to:

- Design widgets in Application Orchestrator to structure a customized Backoffice UI.

Lesson 3: Describing Custom Backoffice Extensions

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the steps to create custom Backoffice extensions and identify the required configuration files for use in different implementations.

Lesson 4: Configuring Backoffice Using UI and Application Configuration

Lesson Objectives

After completing this lesson, you will be able to:

- Apply different ways to configure Backoffice using UI and configuration XML files.

Lesson 5: Managing Backoffice Access

Lesson Objectives

After completing this lesson, you will be able to:

- Manage Backoffice widget access with authority groups.

Lesson 6: Performing Backoffice Exercise

Lesson Objectives

After completing this lesson, you will be able to:

- Configure Backoffice in SAP Commerce Cloud by completing a hands-on exercise.

Lesson 1: Using the Data Validation Framework

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the key concepts of data validation process within the SAP Commerce Cloud validation framework.

Lesson 2: Applying Validation Service

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the role of the Validation Service in the validation process and apply it to implement and configure diverse constraint rules.

Lesson 3: Creating and Managing Validation Constraint Rules in the Backoffice

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the UI Support in Backoffice to create, manage and apply validation constraint rules.

Lesson 4: Performing Validation Exercise

Lesson Objectives

After completing this lesson, you will be able to:

- Demonstrate step-by-step how to create and manage new validation constraint rules in Backoffice

Lesson 1: Describing the Personalization Module

Lesson Objectives

After completing this lesson, you will be able to:

- Explain Personalization in SAP Commerce Cloud and its business advantages for web content.

Lesson 2: Explaining the Data Models

Lesson Objectives

After completing this lesson, you will be able to:

- Identify the essential data models of the Personalization module in SAP Commerce Cloud.

Lesson 3: Configuring Personalization in SmartEdit

Lesson Objectives

After completing this lesson, you will be able to:

- Set up personalization in SmartEdit.

Lesson 4: Configuring and Customizing the Personalization Calculation Process

Lesson Objectives

After completing this lesson, you will be able to:

- Configure and customize essential elements related to the personalization calculation process.

Lesson 5: Performing Personalization Exercise

Lesson Objectives

After completing this lesson, you will be able to:

- Apply the best practices by implementing a customization of the personalization module in a hands-on exercise.

Lesson 1: Describing the Mechanism of Search Engine

Lesson Objectives

After completing this lesson, you will be able to:

- Explain key features and mechanism of the SAP Commerce Cloud search engine.

Lesson 2: Comparing the Standard Server Offerings

Lesson Objectives

After completing this lesson, you will be able to:

- Differentiate between Search Service and other search approaches.

Lesson 3: Explaining the Indexing (Extract-Transform-Load) Process

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the indexing process in SAP Commerce Cloud, including extraction, transformation, and loading data into the Search Engine.

Lesson 4: Configuring and Customizing Search

Lesson Objectives

After completing this lesson, you will be able to:

- Configure and customize various search features and functionalities.

Lesson 5: Describing Adaptive Search

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the features and benefits of Adaptive Search in SAP Commerce Cloud.

Lesson 6: Configuring Adaptive Search

Lesson Objectives

After completing this lesson, you will be able to:

- Configure and manage search profiles in the Adaptive Search perspective to customize search results based on customer preferences.

Lesson 7: Enhancing Search Experience With Personalization

Lesson Objectives

After completing this lesson, you will be able to:

- Relate target groups to personalize search results.

Lesson 8: Performing Search and Navigation Exercise

Lesson Objectives

After completing this lesson, you will be able to:

- Configure and customize search options to improve the customer search experience.

Lesson 1: Applying Promotions and Rule Engine in SAP Commerce Cloud

Lesson Objectives

After completing this lesson, you will be able to:

- Identify key features and benefits of the promotions and rule engine in SAP Commerce Cloud.

Lesson 2: Describing Promotions from a Business Users' Perspective

Lesson Objectives

After completing this lesson, you will be able to:

- Explain how promotion rules are constructed and triggered by customer actions in the storefront.

Lesson 3: Describing Promotions from a Technical Users' Perspective

Lesson Objectives

After completing this lesson, you will be able to:

- Summarize the major technical elements and process of creating and deploying promotions.

Lesson 4: Applying Coupons in SAP Commerce Cloud

Lesson Objectives

After completing this lesson, you will be able to:

- Outline the different types of coupons and their application in promotion rules.

Lesson 5: Discussing Out of the Box (OOTB) Special Features

Lesson Objectives

After completing this lesson, you will be able to:

- Use out-of-the-box features to extend promotion capabilities in SAP Commerce Cloud.

Lesson 6: Performing Promotions and Coupons Exercise

Lesson Objectives

After completing this lesson, you will be able to:

- Create a promotion rule in SAP Commerce Cloud by customizing conditions and including coupon requirements.

Lesson 1: Providing an Overview of OCC Web Services

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the purpose and benefits of utilizing OCC web services.

Lesson 2: Describing OCC Architecture and Communication Process

Lesson Objectives

After completing this lesson, you will be able to:

- Explain how Omni Commerce Connect handles the data communication process through RESTful web services.

Lesson 3: Customizing OCC Web Services

Lesson Objectives

After completing this lesson, you will be able to:

- Create a custom OCC extension to customize web services and DTOs.

Lesson 4: Performing Omni Commerce Connect Exercise

Lesson Objectives

After completing this lesson, you will be able to:

- Customize OCC RESTful Web Services in a business scenario.

Lesson 1: Describing CronJobs in SAP Commerce Cloud

Lesson Objectives

After completing this lesson, you will be able to:

- Define the purpose and benefits of using CronJobs for task automation in SAP Commerce Cloud.

Lesson 2: Implementing a CronJob

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the key components of a CronJob, including CronJob, Job, and Trigger.

Lesson 3: Starting a CronJob

Lesson Objectives

After completing this lesson, you will be able to:

- Explain different methods for initiating a CronJob in SAP Commerce Cloud.

Lesson 4: Performing CronJob Exercise

Lesson Objectives

After completing this lesson, you will be able to:

- Implement and manage a new CronJob to recalculate prices.

Lesson 1: Describing Events in the SAP Commerce Cloud Event System

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the SAP Commerce Cloud Event System.

Lesson 2: Implementing Event Class

Lesson Objectives

After completing this lesson, you will be able to:

- Explain different ways to implement event classes in SAP Commerce Cloud event system.

Lesson 3: Implementing Event Listeners

Lesson Objectives

After completing this lesson, you will be able to:

- Implement event listeners to react to published events.

Lesson 4: Implementing Asynchronous Events

Lesson Objectives

After completing this lesson, you will be able to:

- Implement asynchronous events to improve process efficiencies and reduce process delays.

Lesson 5: Implementing Transaction-Aware Events

Lesson Objectives

After completing this lesson, you will be able to:

- Implement deferred publication of an event until the end of a transaction.

Lesson 1: Describing the Architecture of Business Process Engine

Lesson Objectives

After completing this lesson, you will be able to:

- Describe how business processes are modeled and supported by the process engine architecture in SAP Commerce Cloud.

Lesson 2: Creating a Business Process Template

Lesson Objectives

After completing this lesson, you will be able to:

- Identify the steps required to create and implement a process template for business processes.

Lesson 3: Explaining Node Types

Lesson Objectives

After completing this lesson, you will be able to:

- Identify the purpose and features of different node types.

Lesson 4: Defining Process Actions

Lesson Objectives

After completing this lesson, you will be able to:

- Explain various actions specified in the bean attribute of individual action nodes.

Lesson 5: Managing a Business Process

Lesson Objectives

After completing this lesson, you will be able to:

- Create and start a business process using the BusinessProcessService in SAP Commerce Cloud.

Lesson 1: Identifying the Order Management Process and its Extensions

Lesson Objectives

After completing this lesson, you will be able to:

- Describe out-of-the-box order management processes and essential extensions in SAP Commerce Cloud.

Lesson 2: Explaining Out-of-the-Box Order Fulfillment Process

Lesson Objectives

After completing this lesson, you will be able to:

- Outline the steps involved in the standard order fulfillment process within SAP Commerce Cloud.

Lesson 3: Describing ERP/Warehouse Communication (Sub)Process

Lesson Objectives

After completing this lesson, you will be able to:

- Identify features of consignment-process.xml to communicate with external ERP or warehouse management systems.

Lesson 4: Identifying Additional Order Management Features

Lesson Objectives

After completing this lesson, you will be able to:

- Summarize additional features available in order management within SAP Commerce Cloud.

Lesson 5: Performing Order Management Exercise

Lesson Objectives

After completing this lesson, you will be able to:

- Customize the out-of-the-box order management process to meet a specific business requirement.