

## SAP Commerce Cloud Developer Part 1

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### Course Summary

#### Objectives

At the end of this course, students will be able to:

- Understand the fundamental technical aspects of SAP Commerce Cloud (on-premise and cloud version).
- Understand how to code within SAP Commerce Cloud platform.
- Provide configuration for the SAP Commerce Cloud platform back-end.
- Know how to build and deploy your solution to the Cloud.
- Know where to get additional information, best practices, and documentation for SAP Commerce Cloud.

#### Topics

- Overview
- Installing SAP Commerce
- Data Modeling
- Scripting
- Product Modeling
- Impex
- Flexible Search
- Services
- Cache
- Commerce Services & Facades
- Validation
- Understanding the Accelerator Storefront (WCMS)
- SAP Commerce Cloud Portal
- Security
- Creating an Accelerator-Based Site (WCMS)
- SAP Commerce Cloud Know-How

#### Audience

Those who can benefit from this SAP Commerce Developer Part 1 course include:

- Developer
- Developer Consultant
- Solution Architect
- Technology Consultant

#### Prerequisites

Essential:

- Intermediate knowledge in Java, Java EE concepts and patterns, and the Spring Framework

Recommended:

- None

#### Duration

Four days

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### Course Outline

- I. *Overview*
  - A. About this Course
  - B. SAP Commerce Platform and Accelerators
  - C. Architecture
- II. *Installing SAP Commerce*
  - A. Build Framework
  - B. Extension concept
  - C. Basic Configuration
  - D. Hybris Server
  - E. HAC, Initialization, and Update
  - F. Recipes
  - G. Spring in SAP Commerce
  - H. Exercise How-to
  - I. (Exercise) Class Setup
- III. *Data Modeling*
  - A. Introduction to the Type System
  - B. Collections & Relations
  - C. Deployment
  - D. Type System Localization
  - E. (Exercise) Data Modeling
- IV. *Scripting*
  - A. Introduction
  - B. Scripting Tools
- V. *Product Modeling*
  - A. PCM
  - B. Product Modeling
  - C. Classification
  - D. Product Variants
  - E. Configurable Products
  - F. (Exercise) Product Modeling
- VI. *Impex*
  - A. Overview
  - B. Syntax & Examples
  - C. Invoking
  - D. Scripting
  - E. Distributed Impex
  - F. (Exercise) Impex
- VII. *Flexible Search*
  - A. Overview
  - B. Syntax
  - C. API Examples
  - D. Flexible Search alternatives
  - E. (Exercise) Flexible Search
- VIII. *Services*
  - A. Architecture of the Service Layer
  - B. Models
  - C. Interceptors
  - D. Platform Testing Environment
  - E. Transactions
  - F. Service Layer Direct
- G. (Exercise) Services
- IX. *Cache*
- X. *Commerce Services & Facades*
  - A. Commerce Services
  - B. Commerce Facades
  - C. Beans Generation for Facades
  - D. Conversion Process
  - E. (Exercise) Facades
- XI. *Validation*
  - A. Data Validation Framework
  - B. Validation Service
  - C. Validation in Backoffice
  - D. Cockpit Integration
  - E. (Exercise) Validation
- XII. *Understanding the Accelerator Storefront (WCMS)*
  - A. Storefront Management
  - B. CMS Model
  - C. Slots & Components
  - D. Request Flow
  - E. Personalization
  - F. SmartEdit
  - G. Website Links
  - H. (Exercise) WCMS
- XIII. *SAP Commerce Cloud Portal*
  - A. Introduction to Cloud Portal
  - B. Code Repository Connection
  - C. Code Repository Structure
  - D. Cloud Hot Folders
  - E. Build & Deployment
- XIV. *Security*
  - A. Basics
  - B. Type-Based Access Rights
  - C. Restrictions
  - D. Spring Security
  - E. Custom Access Rights
  - F. Additional Security Features
  - G. (Exercise) Security
- XV. *Creating an Accelerator-Based Site (WCMS)*
  - A. Overview of Accelerator templates, extensions, and hooks
  - B. (Exercise) Creating an Accelerator-based Site
- XVI. *SAP Commerce Cloud Know-How*
  - A. Deployment & Maintenance
  - B. Logging & Debugging
  - C. Container Support
  - D. Integration Scenarios
  - E. GDPR
  - F. Knowledge Webography