# Course Schedule 2019

SAP Skills University Singapore

<table>
<thead>
<tr>
<th>Solution / Course</th>
<th>Duration</th>
<th>Fee excl 7% GST (SGD)</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP Commerce Cloud Developer (FT)</td>
<td>7 days</td>
<td>5499</td>
<td>03-Dec-19</td>
<td>11-Dec-19</td>
</tr>
<tr>
<td>C4H340 SAP Commerce Cloud Developer Part 1 (formerly Hy400)</td>
<td>4 days</td>
<td>NA</td>
<td>03-Dec-19</td>
<td>06-Dec-19</td>
</tr>
<tr>
<td>C4H341 SAP Commerce Cloud Developer Part 2 (formerly Hy410)</td>
<td>3 days</td>
<td>NA</td>
<td>09-Dec-19</td>
<td>11-Dec-19</td>
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<tr>
<td>P_HYCD_67 SAP Certified Development Professional - SAP Commerce Cloud 6.7 Developer</td>
<td>NA</td>
<td>NA</td>
<td>30-Dec-19</td>
<td>30-Dec-19</td>
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Please note, SAP reserves the right to change the pricing and / or promotions without prior notice.

Course details are the last updated on 04-Oct-2018
For more information, visit [https://training.sap.com/](https://training.sap.com/)

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## SAP Commerce Cloud Developer Part 1 (formerly HY400)

### Goals
- This course will prepare you to:
  - Understand the fundamental technical aspects of SAP Commerce solution on premise and cloud version
  - Understand how to develop and code through SAP Commerce Cloud platform
  - Can provide configuration into SAP Commerce Cloud platform in the backend
  - Know how to build and deploy their solution to the Cloud
  - Know where to get additional information, best practices and documentation

### Audience
- Developer
- Developer Consultant
- Solution Architect
- Technology Consultant

### Prerequisites
**Essential**
- Excellent knowledge in Java J2EE concepts and patterns / Spring Framework

### Course based on software release
- SAP Commerce Cloud 1811

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SAP
Content

- Overview & Catch-up
  - SAP Commerce Platform and Accelerator
- Installing the Accelerator
  - Build Framework
  - Extension concept
  - Basic Configuration
  - Hybris Server
  - HAC, Initialization and Update
  - Recipes
  - Spring in SAP Commerce Cloud
  - Exercise How-to
  - (Exercise 1) Installation
- Data Modeling
  - Introduction to the Type System
  - Collections & Relations
  - Deployment
  - Type System Localization
  - (Exercise 2) Data Modeling
- Scripting
  - Introduction
  - Scripting Tools
- Product Modeling
  - PCM
  - Product Modeling
  - Classification
  - Product Variants
  - Configurable Products
  - (Exercise 3) Product Modeling
- Impex
  - Overview
  - Syntax & Examples
  - Invoking
  - Scripting
  - Distributed Impex
  - (Exercise 4) Impex
- Flexible Search
  - Overview
  - Syntax
  - API Examples
  - Flexible Search alternatives
  - (Exercise 5) Flexible Search
- Services
  - Service Layer
  - Models
  - Interceptors
– Platform Testing Environment
– Transactions
– ServiceLayer Direct
– (Exercise 6) Services
• Cache
• Commerce Services & Facades
– (Exercise 7) Commerce Services & Facades
• Validation
– Data Validation Framework
– Validation Service
– Validation in Backoffice
– Cockpit Integration
– (Exercise 8) Validation
• Creating an Accelerator Storefront (WCMS)
– Storefront Management
– CMS Model
– Slots & Components
– Request Flow
– Personalization
– SmartEdit
– Website Links
– Building a Basic Store
– (Exercise 9) WCMS
• Cloud Portal
– Introduction to Cloud Portal
– Code Repository Structure
– Code Repository Connection
– Cloud Hot Folders
– Build & Deployment
• Security
– Basics
– Type-Based Access Rights
– Restrictions
– Spring Security
– Custom Access Rights
– Additional Security Features
– (Exercise 10) Security
• SAP Commerce Cloud Know-How
– Deployment & Maintenance
– Logging & Debugging
– Container Support
– Integration Scenarios
– GDPR
– Knowledge Webography
SAP Commerce Cloud Developer Part 1 (formerly HY400) (Contd...)

Notes
• If you want to use your own machine, please consider following system requirements:
  – CPU: Minimum Dual Core (recommended Quad Core)
  – RAM: Minimum 8 GB (recommended 16 GB)
  – Hard Disk: 7200 rpm IDE (recommended SSD)
  – Hard Disk Space: 10 GB (recommended 20 GB)
  – Most recent Java 8 Development kit-64 bits
• General requirements for all on-site trainings:
  – Required for all SAP Customer Experience on-site trainings, regardless of the course content!
  – Projector with VGA connection required. DVI / HDMI connections are optional.
  – Internet connection is required for trainer and attendees
  – A list of names of attendees
  – Information on participants’ technical background and experience with SAP Commerce
• Usually requested as part of the training setup process.
  – Name badges for attendees are required.
  – Please recommend hotels near the training location to us.
  – A visa for the trainer may be required, depending on country. If visa is required, please assist in obtaining.

C4H341 SAP Commerce Cloud Developer Part 2 (formerly HY410)

Goals
• After this 3-day course, the participants:
  – Create a fundamental, state-of-the-art e-commerce application based on SAP Commerce Cloud Suite
  – Understand how to use and work with advanced features in SAP Commerce Cloud platform
  – Can provide configuration into SAP Commerce Cloud platform in the backend
  – Extend the SAP Commerce Cloud platform by creating new extensions with specific functionality

Audience
• Developer
• Developer Consultant
• Solution Architect
• Technology Consultant

Prerequisites
Essential
• Xcellent knowledge in Java J2EE concepts and patterns / Spring Framework
• C4H340 Sap Commerce Cloud Developer Part 1

Course based on software release
• SAP Commerce Cloud 1811

Content
• Overview & Catch-up
  – SAP Commerce Platform & Accelerator
  – Review of SAP Commerce Cloud Developer Training – Part 1
  – Exercise How-To
• Backoffice
  – Overview
C4H341 SAP Commerce Cloud Developer Part 2 (formerly HY410) (Contd...)

- Application Orchestrator
- Custom Backoffice Extensions
- Backoffice Configuration
  - (Exercise 11) Backoffice
- WCMS & AddOns
  - JSP Structure
  - Accelerator AddOn
  - AddOn Architecture
  - (Exercise 12) WCMS & AddOns
- Personalization based on SmartEdit
  - Overview
  - Architecture
  - Customer Experience Calculation
  - Users & Segments
  - Personalization of Content
  - Commerce Customizations
  - Exercise
  - (Exercise 13) Personalization based on SmartEdit
- Search & Navigation
  - Overview
  - Indexing
  - Searching
  - Adaptive Search
  - Adaptive Search in Backoffice
  - Enhanced Search Experience with Personalization
  - Server Setup
  - (Exercise 14) Search & Navigation
- Promotions & Coupons
  - Promotions & Rule Engine
  - Promotions – A Business Users’ View
  - Promotions – A Technical Users’ View
  - Coupons
  - Special OOTB Features
  - (Exercise 15) Promotions & Coupons
- Web Services
  - OCC Web Services
  - (Exercise 16) Omni Commerce Connect Web Services
- CronJobs
  - Configuring CronJobs
  - CronJob Scripting
  - (Exercise 17) CronJobs
- Workflows
  - Overview
  - Data Model
  - Working with Workflows
  - Automated Steps
  - (Exercise 18) Workflows
• Event System
• Process Engine
  – Architecture & Features
  – Creating a Process
  – Scripting Support
  – BPMN Support
• Orders
  – Cart & Checkout and Order Management
  – Cart & Checkout Module
  – Key Features
  – Warehouse Integration
  – Customer Services
  – (Exercise 19) Order Management