

SAP Hybris (SAP Commerce Cloud) Syllabus

1. Introduction to SAP Hybris

- Overview of SAP Hybris / SAP Commerce Cloud
- E-commerce fundamentals (B2B & B2C)
- Hybris architecture overview
- Industry use cases & real-time implementations

2. Hybris Architecture & Platform

- Multi-layer architecture (Presentation, Service, Persistence)
- Hybris framework & extensions
- HAC (Hybris Administration Console)
- Backoffice & Cockpits
- Data modeling concepts

3. Environment Setup & Installation

- Local setup (SAP Commerce Cloud 2211 / latest)
- JDK, Tomcat, MySQL setup
- Extensions & Add-ons
- Build & initialization (ant commands)

4. Hybris Core Development

- items.xml (Data Modeling)
- Attributes, relations, itemtypes
- Model, Jalo & Service Layer
- Flexible Search (queries)
- Interceptors & validation
- Impex (Import/Export data)



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5. Product & Catalog Management (PCM)

- Product Cockpit / Backoffice
- Catalogs & synchronization
- Classification systems
- Product attributes & variants

6. Web Content Management (WCMS)

- CMS pages & components
- SmartEdit
- Content personalization
- Navigation & page templates
- Restrictions & targeting rules

7. Commerce Functionality

- Cart & Checkout process
- Pricing & taxation
- Promotions & vouchers
- Order management system (OMS)
- Payment integration
- Subscription & bundling

8. Search & Navigation

- Solr search configuration
- Faceted search
- Indexing & optimization
- Search restrictions

9. Business Processes & CronJobs

- Business process engine
- Events & workflows
- CronJobs (standard, dynamic, composite)
- Email & notification processes



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10. Integrations & APIs

- OCC (Omni Commerce Connect APIs)
- REST & OAuth2 authentication
- OData & Integration APIs
- SAP ERP / S4 integration
- Third-party integrations (payment, logistics)

11. Backoffice Customization

- Custom widgets
- UI customization
- User & role management
- Access control & security

12. Advanced Development

- Converters & Populators
- Hooks & interceptors
- Groovy & Beanshell scripting
- Performance tuning & caching
- Logging & debugging

13. Commerce Accelerator

- B2C Accelerator
- B2B Accelerator
- Storefront architecture (MVC)
- Spartacus (Headless frontend)

14. SAP Commerce Cloud (CCv2)

- Cloud deployment (CCv2)
- CI/CD pipelines
- Migration from on-prem to cloud
- Environment management

15. Real-Time Project (Must for Placement)

- End-to-end eCommerce website
- Product catalog setup
- Cart, checkout, payment integration
- Custom features (offers, personalization)
- Deployment on cloud



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