SAP BTP — Complete Course Content

WC Skills • World Class Skills Institute

Duration	12 Weeks
Target Audience	Developers, architects and SAP cloud professionals
Prerequisites	Basic SAP/cloud concepts; programming helpful.

What this document contains

A module-wise training roadmap covering concepts, hands-on labs, project work, assessment checkpoints and interview preparation. The syllabus is designed as a structured course plan for classroom or live-online delivery.

Course Objectives & Learning Outcomes

By the end of this course, learners should be able to explain the core concepts, perform the practical tasks listed in the labs, troubleshoot common scenarios, document their work and complete the capstone with a professional implementation approach.

- Understand the architecture, terminology and end-to-end workflow of the subject.
- Perform guided hands-on exercises using the relevant tools and development/administration environment.
- Apply troubleshooting, testing, documentation and best-practice techniques.
- Build a portfolio-ready capstone demonstrating practical competency.
- Prepare for technical interviews with scenario-based questions and implementation discussions.

Detailed Module-wise Curriculum

Module 1: BTP Foundation & Global Accounts

- Global account, directories and subaccounts
- Entitlements and quotas
- Regions and environments
- Identity and access basics
- Cloud Foundry overview

Hands-on Lab: Lab: design a subaccount structure for a company.

Module 2: Security & Identity

- IAS/IPS concepts
- Role collections
- Trust configuration
- OAuth and authentication basics
- Least privilege

Hands-on Lab: Lab: define role collections for development and business users.

Module 3: Cloud Foundry

- Spaces, orgs and applications
- Buildpacks and service instances
- Environment variables
- Logs and scaling
- cf CLI workflow

Hands-on Lab: Lab: deploy and monitor a sample application.

Module 4: CAP Development

- CDS modeling
- Services and handlers
- Persistence
- OData
- Authentication and deployment concepts

Hands-on Lab: Lab: design a CAP service with a simple business entity.

Module 5: Integration & Connectivity

- Destination service
- Connectivity service
- Integration Suite awareness
- APIs and event-driven integration
- On-premise connectivity concepts

Hands-on Lab: Lab: design a secure cloud-to-on-premise integration.

Module 6: BTP Data & Analytics

- HANA Cloud
- HDI containers
- Data access
- Analytics Cloud awareness
- Data lifecycle

Hands-on Lab: Lab: model an application data layer.

Module 7: UI & Application Lifecycle

- SAPUI5/Fiori awareness
- HTML5 apps
- App router
- MTA concepts
- Transport and deployment

Hands-on Lab: Lab: package a simple cloud application.

Module 8: Operations & Architecture

- Monitoring
- Alerting
- Cost awareness
- Dev/test/prod design
- Architecture review

Hands-on Lab: Lab: conduct a BTP architecture health check.

Module 9: Capstone

- End-to-end application
- Security
- Integration
- Deployment
- Documentation and presentation

Hands-on Lab: Lab: deliver a production-style BTP solution blueprint and demo.

Practical Delivery Plan

Phase	Focus	Expected Evidence
1	Concept + demonstration	Notes, diagrams and guided exercises
2	Hands-on practice	Working configuration/code and screenshots/logs
3	Troubleshooting	Issue reproduction, diagnosis and resolution notes
4	Mini project	Functional solution with test cases
5	Capstone	End-to-end project, documentation and presentation

Assessment & Certification Readiness

Recommended assessment pattern: module quizzes (20%), practical labs (30%), mini project (20%), capstone (20%) and interview/viva (10%). Completion certificates, placement support and any certification claims should follow the institute's current published policy and the relevant vendor's certification rules.

Capstone Requirements

- Problem statement and scope
- Architecture/process diagram
- Implementation or configuration
- Test cases and results
- Troubleshooting notes
- User/technical documentation
- Final presentation and interview questions

Interview Preparation Topics

Learners should be able to answer architecture questions, explain the difference between key concepts, troubleshoot a real scenario, justify design choices, discuss performance/security considerations and walk through the capstone from requirement to deployment/support.

Recommended Learning Resources

Use official product documentation and current vendor guidance for version-specific commands, configuration steps and certification requirements. Validate training examples in a non-production environment before applying them to customer systems.