

TECHSCHOLARSS EDUCATION & TRAINING SERVICES PVT LTD

SAP BTP Course Curriculum

SAP Business Technology Platform | Cloud, Integration & Application Development

Industry-focused SAP BTP training covering BTP architecture, global accounts and subaccounts, Identity and Access Management, Cloud Foundry, Kyma/Kubernetes concepts, SAP HANA Cloud, HDI containers, CAP, SAPUI5, Fiori, Integration Suite, API Management, Event Mesh, destinations, connectivity, security, CI/CD, monitoring, application deployment and real-world S/4HANA integration projects.

Website: www.techscholarss.com

Course Overview

The SAP BTP curriculum is designed to develop practical skills for building, extending, integrating and operating SAP applications on the cloud. It covers BTP account and security administration, application development with Cloud Application Programming Model, SAPUI5/Fiori, HANA Cloud, Integration Suite, APIs and events, connectivity, deployment and DevOps. The program emphasizes real-world extension and integration scenarios with SAP S/4HANA.

Course Objectives

- Understand SAP Business Technology Platform architecture and major services.
- Configure global accounts, directories, subaccounts, entitlements and service instances.
- Understand Identity Authentication, Identity Provisioning and role-based access concepts.
- Work with Cloud Foundry runtime and understand Kyma/Kubernetes concepts.
- Develop cloud applications using SAP Cloud Application Programming Model (CAP).
- Use SAP HANA Cloud, HDI containers and database services for application development.
- Build modern SAPUI5/Fiori applications and connect them to BTP services.
- Design integrations using SAP Integration Suite and Cloud Integration.
- Understand API Management, API policies, security and lifecycle management.
- Work with event-driven architectures using SAP Event Mesh concepts.
- Configure destinations, Connectivity service and secure on-premise integration.
- Deploy, monitor and troubleshoot BTP applications using DevOps and CI/CD concepts.
- Apply SAP BTP knowledge to real-world S/4HANA extension and integration projects.

Module 1: SAP BTP Introduction & Architecture

Tools Covered: SAP BTP, Global Account, Subaccounts, Services

- Introduction to SAP Business Technology Platform
- BTP service portfolio overview
- Application development and integration
- Data and analytics capabilities
- Automation and AI overview
- Global account architecture
- Directories and subaccounts
- Regions and environments
- BTP implementation and governance lifecycle

Module 2: BTP Account, Subaccount & Entitlement Management

Tools Covered: BTP Cockpit, Entitlements, Service Marketplace

- Global account administration
- Subaccount creation and configuration
- Directories
- Entitlements
- Service plans
- Quotas and consumption
- Service Marketplace
- Service instances and subscriptions
- Environment configuration
- Account-management troubleshooting

Module 3: Identity, Security & Role Management

Tools Covered: IAS, IPS, BTP Role Collections, Authorization

- BTP security architecture
- Identity Authentication Service overview
- Identity Provisioning Service overview
- Users and identity federation
- Role collections
- Role assignments
- Trust configuration
- OAuth and authentication concepts
- Security best practices
- Authorization troubleshooting

Module 4: Cloud Foundry Runtime

Tools Covered: Cloud Foundry, BTP Cockpit, CF CLI

- Cloud Foundry architecture
- Organizations and spaces
- Applications and routes
- Service instances
- User-provided services
- Environment variables
- Buildpacks and application deployment
- CF CLI basics
- Application logs
- Cloud Foundry troubleshooting

Module 5: Kyma Runtime & Kubernetes Concepts

Tools Covered: Kyma, Kubernetes, Containers

- Kyma runtime overview
- Kubernetes fundamentals
- Clusters, namespaces and workloads
- Pods and deployments
- Services and ingress concepts
- Containers and images
- Serverless/function concepts overview
- Kyma application deployment
- Monitoring and logs
- Kyma troubleshooting

Module 6: SAP HANA Cloud & Database Services

Tools Covered: SAP HANA Cloud, HDI, SQL

- SAP HANA Cloud overview
- Database instances
- HDI containers
- Database artifacts
- SQL and database development concepts
- Tables, views and procedures
- Users and technical access
- Application-to-database connectivity
- Database security
- HANA Cloud monitoring and troubleshooting

Module 7: SAP Cloud Application Programming Model (CAP)

Tools Covered: CAP, Node.js, Java, CDS

- CAP architecture
- CAP project structure
- Core Data Services (CDS)
- Entities and associations
- Services and service definitions
- Node.js and Java runtimes
- CRUD and OData services
- Custom handlers
- Authentication and authorization
- CAP deployment and troubleshooting

Module 8: SAPUI5, Fiori & BTP Application Development

Tools Covered: SAPUI5, Fiori, HTML5 Application Repository

- Modern SAP frontend architecture
- SAPUI5 and Fiori overview
- MVC application development
- OData consumption
- Destinations for backend access
- HTML5 Application Repository
- Application Router
- Fiori Launchpad integration concepts
- Frontend deployment
- Application debugging

Module 9: SAP Integration Suite & Cloud Integration

Tools Covered: Integration Suite, Cloud Integration, iFlows

- SAP Integration Suite overview
- Cloud Integration architecture
- Integration flows
- Sender and receiver adapters
- Message mapping
- Content modifiers
- Transformations and routing
- Exception handling
- Integration monitoring
- iFlow deployment and troubleshooting

Module 10: API Management

Tools Covered: API Management, API Portal, Policies

- API Management overview
- API providers and proxies
- API lifecycle
- API policies
- Authentication and authorization
- Rate limiting and quota concepts
- Threat protection
- API documentation
- API analytics
- API troubleshooting

Module 11: Event Mesh & Event-Driven Architecture

Tools Covered: SAP Event Mesh, Events, Messaging

- Event-driven architecture
- SAP Event Mesh overview
- Event channels and queues
- Publish and subscribe concepts
- Event formats
- Asynchronous integration
- S/4HANA business events overview
- Event-based application scenarios
- Monitoring messages
- Event troubleshooting

Module 12: Connectivity, Destinations & On-Premise Integration

Tools Covered: Connectivity Service, Destinations, Cloud Connector

- BTP Connectivity service
- Destinations
- Authentication types
- SAP Cloud Connector overview
- On-premise connectivity
- Virtual hosts and access control
- S/4HANA connectivity
- Backend service consumption
- Connectivity monitoring
- Connection troubleshooting

Module 13: BTP Extension & S/4HANA Integration

Tools Covered: BTP, S/4HANA, CAP, APIs, Events

- Clean-core extension concepts
- Side-by-side extensibility
- S/4HANA APIs
- OData and REST integration
- Business-event integration
- Custom applications on BTP
- Extension architecture
- Security and authorization
- Data and process integration
- Extension troubleshooting

Module 14: DevOps, CI/CD & Application Lifecycle

Tools Covered: Git, CI/CD, SAP Continuous Integration and Delivery

- Cloud application lifecycle
- Source-code management
- Git fundamentals
- Build and deployment pipelines
- CI/CD concepts
- Automated testing overview
- Transport and release concepts
- Environment promotion
- Deployment strategies
- Pipeline troubleshooting

Module 15: Monitoring, Logging & Operations

Tools Covered: BTP Cockpit, Application Logs, Monitoring

- BTP operational monitoring
- Application logs
- Audit logs
- Service monitoring
- Cloud Foundry application monitoring
- Integration monitoring
- API monitoring
- Event monitoring
- Alerting concepts
- Production incident troubleshooting

Module 16: BTP Governance, Cost & Best Practices

Tools Covered: BTP Cockpit, Entitlements, Security

- BTP governance concepts
- Account and subaccount strategy
- Naming and tagging conventions
- Service entitlement management
- Consumption and cost awareness
- Security governance
- Transport and landscape strategy
- High availability concepts
- Architecture best practices
- Operational governance

Module 17: Real-World SAP BTP Projects

Tools Covered: BTP, CAP, Integration Suite, S/4HANA, Fiori

- BTP account and security setup project
- Cloud Foundry application deployment project
- HANA Cloud and HDI application project
- CAP-based business application
- SAPUI5/Fiori application on BTP
- S/4HANA side-by-side extension project
- Integration Suite iFlow project
- API Management project
- Event Mesh event-driven integration
- Cloud Connector and on-premise integration
- CI/CD and deployment pipeline project
- End-to-end SAP BTP implementation and production-support case study

Module 18: Resume Building & Interview Preparation

Tools Covered: SAP BTP Scenarios, Mock Interviews

- SAP BTP resume preparation
- Project profile preparation
- BTP architecture questions
- Account and entitlement questions
- Security and role-management questions
- Cloud Foundry and Kyma questions
- HANA Cloud and CAP questions
- SAPUI5/Fiori development questions
- Integration Suite and iFlow questions
- API Management and Event Mesh questions
- S/4HANA extension and connectivity questions
- Scenario-based troubleshooting and mock interviews

Tools & Technologies Covered

- SAP Business Technology Platform (BTP)
- BTP Cockpit and Global Account Management
- Cloud Foundry Runtime
- Kyma Runtime and Kubernetes Concepts
- SAP HANA Cloud and HDI Containers
- SAP Cloud Application Programming Model (CAP)
- Node.js and Java

- SAPUI5 and SAP Fiori
- SAP Integration Suite / Cloud Integration
- API Management
- SAP Event Mesh
- Connectivity Service and SAP Cloud Connector
- Destinations and OAuth Concepts
- Git and CI/CD
- BTP Monitoring, Security and Governance

Career Opportunities After This Program

- SAP BTP Consultant
- SAP BTP Developer
- SAP BTP Technical Consultant
- SAP BTP Application Developer
- SAP CAP Developer
- SAP Integration Consultant
- SAP Integration Suite Consultant
- SAP Fiori/BTP Developer
- SAP Cloud Application Developer
- SAP API Management Consultant
- SAP S/4HANA Extension Consultant
- SAP Cloud Integration Developer
- SAP BTP Support Consultant

Why Choose TechScholarss?

- Industry-oriented SAP BTP curriculum
- Hands-on cloud application and integration practice
- Real-world S/4HANA extension scenarios
- Live project-based learning
- Practical CAP, Fiori, Integration Suite and API exercises
- Experienced trainers
- Flexible online and offline batches
- Resume and interview preparation
- Internship support
- Placement assistance
- Industry-focused certification

Certification & Program Outcome

Students completing the program can receive a TechScholarss SAP BTP Course Certificate, subject to the institute's completion criteria. By the end of the program, learners should be able to understand SAP BTP architecture, manage

accounts and security, work with Cloud Foundry and Kyma concepts, build applications using CAP and SAPUI5/Fiori, use HANA Cloud, develop integrations with Integration Suite, manage APIs and events, configure secure connectivity to on-premise systems, implement CI/CD and monitor cloud applications, and participate in real-world SAP BTP implementation and production-support projects.

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