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SAP BTP (Business Technology Platform) Training Curriculum Online by Certified Consultant

Course Overview

SAP Business Technology Platform (SAP BTP) is SAP's integrated platform for application development, automation, data management, analytics, artificial intelligence, and system integration. This course covers SAP BTP architecture, services, application development, integration, extension, and administration.

Course Duration: 50-60 Hours

Mode: Online

Level: Beginner to Advanced

Prerequisites: Basic SAP knowledge and understanding of business processes

Module 1: Introduction to SAP BTP

- Overview of SAP BTP
- Evolution from SAP Cloud Platform (SCP) to SAP BTP
- SAP BTP Architecture
- Global Account, Subaccount, and Directories
- Cloud Foundry Environment
- Kyma Environment
- ABAP Environment
- BTP Services Overview
- SAP Discovery Center
- SAP BTP Cockpit Navigation

Practical Exercises

- Create SAP BTP Trial Account
 - Configure Global Account Structure
 - Explore SAP BTP Cockpit
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Module 2: SAP BTP Account & User Administration

- Identity Authentication Service (IAS)
- Identity Provisioning Service (IPS)
- User and Role Management
- Security Concepts
- Trust Configuration
- Authorization Management
- Role Collections
- Entitlements and Quotas
- Audit Logs and Monitoring

Practical Exercises

- Configure User Access
 - Create Role Collections
 - Assign Authorizations
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Module 3: SAP Integration Suite

- Introduction to SAP Integration Suite
- Cloud Integration (CPI)
- API Management
- Open Connectors
- Event Mesh
- Trading Partner Management
- Integration Advisor
- Integration Monitoring

Practical Exercises

- Build Integration Flow (iFlow)
 - Configure Sender and Receiver Systems
 - API Creation and Testing
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Module 4: SAP Extension Suite

- Extension Concepts
- Side-by-Side Extensions
- Key User Extensions
- Developer Extensibility



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- SAP Build Apps
- SAP Build Process Automation
- SAP Build Work Zone
- SAP Business Application Studio

Practical Exercises

- Build No-Code Application
 - Create Workflow Automation
 - Develop Custom Business Process
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Module 5: SAP Business Application Studio (BAS)

- BAS Overview
- Development Spaces
- Workspace Management
- Project Creation
- Git Integration
- Fiori Development Tools
- Debugging Applications
- Deployment Procedures

Practical Exercises

- Setup BAS Environment
 - Create Development Project
 - Deploy Application to BTP
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Module 6: SAP Fiori & UI5 Development on BTP

- Introduction to SAP Fiori
- SAPUI5 Fundamentals
- Fiori Design Principles
- Fiori Elements
- OData Services
- SAP Gateway Integration
- Launchpad Service
- Responsive Application Design

Practical Exercises

- Develop Fiori Application
 - Connect to OData Service
 - Deploy to Launchpad
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Module 7: SAP CAP (Cloud Application Programming Model)

- CAP Overview
- Domain Modeling
- CDS Data Models
- Services Definition
- Service Implementation
- Node.js Development
- Java Development
- CAP Security
- Deployment to BTP

Practical Exercises

- Build CAP Application
 - Create Data Models
 - Expose OData APIs
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Module 8: SAP HANA Cloud

- SAP HANA Cloud Overview
- Database Architecture
- Provisioning HANA Cloud
- Database Explorer
- SQL Development
- Data Modeling
- HDI Containers
- Database Security
- Backup and Recovery

Practical Exercises

- Create HANA Database

- Build Tables and Views
 - Execute SQL Queries
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Module 9: SAP Analytics Cloud Integration

- Introduction to SAP Analytics Cloud
- Data Connectivity
- Live Connections
- Import Connections
- Story Design
- Dashboard Creation
- Planning Models
- Predictive Analytics

Practical Exercises

- Create Dashboard
 - Build Reports
 - Connect BTP Data Sources
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Module 10: SAP Build Low-Code/No-Code Development

- SAP Build Overview
- SAP Build Apps
- SAP Build Process Automation
- SAP Build Work Zone
- Business Process Design
- Form Development
- Workflow Automation
- Mobile Application Development

Practical Exercises

- Build Mobile App
 - Automate Approval Workflow
 - Create Business Forms
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Module 11: SAP AI & Machine Learning Services



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- SAP AI Core
- SAP AI Launchpad
- Machine Learning Concepts
- AI Business Services
- Document Information Extraction
- Data Attribute Recommendation
- Intelligent Scenario Lifecycle

Practical Exercises

- Deploy AI Model
 - Configure AI Services
 - Use AI APIs
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Module 12: SAP Event-Driven Architecture

- Event Mesh Fundamentals
- Event Producers and Consumers
- Event-Based Integration
- Asynchronous Messaging
- Queue Management
- Event Monitoring

Practical Exercises

- Configure Event Mesh
 - Publish and Consume Events
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Module 13: SAP BTP Security

- Security Architecture
- Authentication Methods
- OAuth 2.0
- SAML Authentication
- XSUAA Service
- Secure Connectivity
- Certificate Management
- Data Protection

Practical Exercises

- Configure OAuth Authentication
 - Secure Application Deployment
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Module 14: DevOps and CI/CD in SAP BTP

- DevOps Concepts
- GitHub Integration
- GitLab Integration
- CI/CD Pipelines
- Transport Management Service
- Automated Deployments
- Monitoring and Logging

Practical Exercises

- Configure CI/CD Pipeline
 - Automate Application Deployment
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Module 15: Monitoring and Administration

- SAP Cloud ALM
- Application Monitoring
- Performance Monitoring
- Alert Management
- Log Analysis
- Resource Optimization
- Cost Monitoring

Practical Exercises

- Configure Monitoring Dashboards
 - Analyze Application Logs
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Module 16: Real-Time Project**End-to-End SAP BTP Project**



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Project Scope:

- Create SAP BTP Landscape
- Build CAP Application
- Develop SAP Fiori Front-End
- Store Data in SAP HANA Cloud
- Integrate with SAP S/4HANA
- Implement Security
- Deploy on SAP BTP
- Configure Monitoring