SAP Business Data Cloud (BDC) Administration

Day 1 – SAP BDC Platform Architecture & Tenant Administration

Session 1: SAP BDC Positioning & Landscape Overview

- SAP Business Data Cloud in SAP Data & Analytics ecosystem
  - SAP BTP
  - SAP Datasphere
  - SAP Analytics Cloud
  - AI & ML enablement
- BDC use cases from an **admin perspective**
- Roles of BDC in enterprise data strategy

Session 2: BDC Architecture (Admin View)

- Cloud-native, multi-tenant architecture
- Logical vs physical architecture
- Control plane vs data plane
- Single-tenant vs multi-tenant considerations

Session 3: Landscape & Tenant Strategy

- Dev / Test / Prod landscape design
- Tenant lifecycle management
  - Provisioning
  - Scaling
  - Decommissioning
- Tenant isolation & governance considerations

Session 4: Space Administration

- Space concepts in BDC
- Space creation & configuration
- Storage sizing & quota management
- Space-level governance controls

Session 5: User & Access Administration

- User provisioning & de-provisioning
- Role-Based Access Control (RBAC)
- Admin vs Developer vs Consumer roles
- Separation of duties (SoD)
- Identity Provider (IdP) integration overview

Day 2 – Data Pipelines, ETL Operations & Data Quality Monitoring

Session 1: Data Pipeline Architecture (Admin View)

- Data ingestion patterns in BDC
- ETL vs ELT concepts
- Staging, harmonization & semantic layers
- Admin responsibilities in pipeline lifecycle

Session 2: Scheduling & Orchestration

- Job scheduling mechanisms
- Pipeline dependency management
- Execution order & orchestration design
- SLA-driven scheduling

Session 3: Monitoring & Operational Control

- Monitoring ETL jobs
- Load duration & performance indicators
- Failure detection & alerts
- Retry & restart strategies

Session 4: Data Quality Administration

- Data quality framework overview
- Validation rules
- Completeness & consistency checks
- Data quality KPIs
- Alerting & escalation mechanisms

Session 5: Operational Best Practices

- Designing stable pipelines
- Reducing operational overhead
- Scaling pipelines safely
- Admin checklist for production pipelines

Day 3 – Integration Administration & Troubleshooting

Session 1: Connectivity & Integration Overview

- SAP & non-SAP connectivity options

- Secure connectivity principles
- Authentication & authorization mechanisms

Session 2: Integration Patterns

- Live connection vs data replication
- Federation vs replication use cases
- Performance & governance trade-offs

Session 3: Integration Monitoring

- Integration scheduling
- Job execution tracking
- Integration-level KPIs
- Error thresholds & alerting

Session 4: Troubleshooting & Root Cause Analysis

- Common integration failures
- Log analysis techniques
- Error categorization
- Restart & recovery strategies

Session 5: Platform Integration Awareness

- SAP Datasphere integration (admin responsibilities)
- SAP BTP service integration
- Databricks Lakehouse (high-level awareness)
- Cross-platform governance considerations

Day 4 – Platform Health, Performance & Analytics Awareness

Session 1: Platform Health Monitoring

- Platform health concepts
- System availability & reliability
- Workload monitoring

Session 2: Performance & Capacity Management

- Compute & storage monitoring
- Identifying performance bottlenecks
- Capacity planning strategies
- Cost optimization techniques

Session 3: Logs, Audits & Traceability

- Audit logging concepts
- Access & activity tracking
- Traceability for compliance
- Incident investigation support

Session 4: Analytics Enablement (Admin Awareness)

- How BDC data feeds analytics tools
- SAP Analytics Cloud integration overview
- KPIs, dashboards & reporting awareness
- Admin role in analytics readiness

Session 5: Performance Best Practices

- Supporting analytics workloads
- Preventing contention
- Admin do’s & don’ts for performance stability

Day 5 – Governance, Security, Change Management

Session 1: Change & Transport Management

- Transport concepts in BDC
- Dev → Test → Prod movement
- Versioning strategies
- Rollback & recovery planning

Session 2: Governance Framework

- Metadata management
- Policy enforcement
- Data ownership & stewardship
- Cross-space governance

Session 3: Security & Compliance

- Security framework overview
- Data privacy & masking
- Encryption (at rest & in transit)
- Regulatory & compliance considerations

Session 4: Go-Live Readiness & Real-World Scenarios

- Go-live checklist

- Operational readiness review
- Incident & escalation models
- Real-world admin scenarios
- Course wrap-up & Q&A

✅Outcome After This Course

Participants will be able to:

- Administer SAP Business Data Cloud confidently
- Manage tenants, spaces, users, and access
- Monitor pipelines, integrations, and platform health
- Enforce governance, security, and compliance
- Support analytics from an admin standpoint