



**BUNDLE COURSE - SAP HANA AND SAP HANA ADMIN -
COURSE SYLLABUS**

SAP HANA 2.0

COURSE DETAILS & CURRICULUM

Lesson 1: SAP HANA Foundation

Lesson 2: Deployment Strategies

- On-Premise
- On-Cloud
- Side-Car

Lesson 3: Architecture of SAP HANA

Lesson 4: Replicating Data to SAP HANA

- Business Objects Data Services (BODS)
- SAP Landscape Transformation (SLT)

Lesson 5: SAP HANA Studio Interface

- Attribute View
- Analytic View
- Calculation View
- Catalog - Schemas, HANA Live Package
- SAP HANA - SQL Overview
- SAP HANA Transports Options
- SAP ABAP - HANASAP HANA CDS Views

Lesson 6: SAP HANA Reporting Overview (BOBJ)

- BO WEBi
- BO Crystal Reports Enterprise
- BO IDT (BO UNX)
- BO CMC (Admin-SSO)
- BO AO (Analysis Office)
- BO Design Studio
- SAP Lumira & Smart Business Client
- SAP Fiori & SAP NetWeaver Business Client7

Lesson 7: SAP HANA System Monitoring & Administration

- DBA Cockpit
- Database Migration Option (DMO)

Lesson 8: SAP HANA Security & Authorization

- User Management
- Role Management

Lesson 9: Advanced Features Overview

- SAP HANA Web IDE
- SAP Predictive Analytics on HANA
- SAP BW-BPC embedded on HANA
- SAP S/4HANA
- Rapid Deployment Solutions (RDS) for HANA
- SAP Activate Solution Manager for SAP HANA

SAP HANA ADMIN

Lesson 00 - SAP HANA ARCHITECTURE

Lesson 01 - SAP HANA Architecture

- In-Memory Computing
- Hardware-Innovations
- Software –Innovations
- SAP HANA simplified Architecture
- SAP HANA Extended Architecture
- Business Intelligence Clients with HANA
- HANA Columnar Store
- SAP HANA row store VS Columnar store
- Understanding Columnar Storage

Lesson 02 - SAP HANA Edition

- SAP HANA Enterprise Edition
- SAP HANA Enterprise Extended Edition (As of SPS03)
- SAP HANA Platform Edition

Lesson 03 - SAP HANA Sizing

- SAP HANA In-Memory Database Sizing elements
- RAM, Disk, CPU
- Memory Sizing
- Disk Sizing
- CPU sizing

Lesson 04 - SAP HANA Versions

- HANA 1.0 SPS03
- HANA 1.0 SPS04—New Features
- HANA 1.0 SPS05—New Features
- HANA 1.0 SPS06—New Features

Lesson 05 - SAP HANA INSTALLATION OVERVIEW

Lesson 06 - SAP HANA Hardware and Software Requirements

- Certified Hardware
- SLES 11 Sp1
- Preparing file system & directories
- Prepare Installation parameters
- Users created during Installation
- Required Installation media
- Prepare Installer configuration file

Lesson 07 - Installing SAP HANA

- SAP HANA unified Installer Tool
- Running Unified Installer to install the SAP HANA SERVER
- Components installed by Installer

Lesson 08 - Install HANA Client

- Available Clients on Linux
- Available Clients on windows
- Install SAP HANA Client on LINUX Host
- Install SAP HANA Client on Windows Host

Lesson 09 - Install HANA Studio

- System Requirements
- Supported Platforms
- Install SAP HANA Studio on LINUX Host
- Install SAP HANA Studio on Windows Host

Lesson 10 - Post – Installation Steps

- Starting and Stopping SAP HANA System
- Displaying Process List
- Logging on to HANA system using HANA studio
- User Security
- Configuring SUM for HANA
- Automatic Start of HANA
- Applying Support packages and Updates
- Monitoring HANA Landscape

Lesson 11 - Enabling High availability of SAP HANA

- Concept of HANA high- availability
- Disaster Tolerance
- Redundant Hardware
- Distributed System
- Standby Host
- Installation Planning for Distributed System
- Install HANA distributed system
- Monitoring and Configuring Standby Hosts

Lesson 12 - SAP HANA DATA PROVISIONING

Lesson 13 - Configuring Data Replication with SLT

Positioning and benefits of SLT for SAP HANA

Key benefits of Trigger-Based Approach

Architecture and building Blocks

Architecture for SAP Source Replication

Architecture for Non-SAP source Replication

Set-up of SAP LT replication server

Installation Aspects

Configuration Steps for SLT replication server

Setup Data Replication

Database-Supportability

Landscape strategy of SLT replication server

SLT replication server Installation Options

Technical Requirements and system setup Information

DMIS2010 and relevant Support packs

SAP Kernel and DBSL Installation

Creating RFC Connections

Creating DB Connections

Configuring and Monitoring Dashboard

Creating New Configuration for SAP source

- Creating New Configuration for NON-SAP source

- Monitoring of Replication

- Mass Transfer IDS

- IUUC Synchronisation Cockpit

- Data Transfer Monitor

- Backup and Recovery Strategy

- Data Volume Management

Lesson 14 - SAP HANA Direct Extractor Configuration Overview

- Introduction to SAP HANA Direct Extractor Connection (DXC)
- Limitations of DXC
- Setup and Configurations

- Enabling Services
- HTTP connection
- Test Connection

Lesson 15 - Configuring Data Replication with SAP BODS

- SAP BODS 4.0 and SAP HANA
- SAP BODS 4.0 Architecture
- Configuring BO Data services
- Installing HANA ODBC Driver
- Creating SAP HANA Data store in Data Services
- Creating SAP ERP Data store in Data Services
- Configuring HANA Studio for Importing Metadata
- Import Metadata
- Mass Import
- Selective Import
- Load Data via Data services into SAP HANA

Lesson 16 - SAP HANA TECHNICAL OPERATIONS

Lesson 17 - Operate SAP HANA

- Starting & Stopping SAP HANA
- Starting SAP HANA Database
- Stopping SAP HANA Database
- Displaying Process List
- Monitoring HANA landscape

Lesson 18 - Configuring SAP HANA DB

- System Configuration Parameters
- Monitoring and system state Parameters

Lesson 19 - Backup & Recovery SAP HANA

- Need of Backup
- Backup Types
- Data Backup
- Log Backup
- Recovery Options
- Recovery in Replication Scenarios
- Backup to External Backup Destinations
- Recovery scenarios
- Power Failure

- Disk Failure
- High Availability for SAP HANA

Lesson 20 - SAP HANA Security

- Create Users
- User and Role Concept
- Creating Roles
- Assigning Privileges to Roles
- Privileges
- SQL privileges
- System Privileges
- Analytic Privileges
- Reporting and Privileges
- Modeling required privileges

Lesson 21 - SAP HANA Monitoring & Troubleshooting

- Configuring Remote Support
- Solution Manage Integration
- Remote Service Connection
- EWA for HANA
- Availability Monitoring
- Setting up Monitoring
- System Monitoring Setup
- Status Overview
- Services Overview
- System Load History
- Disk usage Details
- Checking System Configuration Alerts

Lesson 22 - Analyzing logs & traces

- Regular administration tasks
- Troubleshooting
- Analyzing performance

Lesson 23 - Software Life cycle Management

- Transporting Changes
- CTS/CTS+
- SAP HANA with CTS+
- Exporting and Importing
- Developer Mode
- Delivery Unit

- SAP support Mode
- Exporting Tables
- Updating SAP HANA
- SAP HANA Update and Patching
- SP stack Update

Lesson 24 - SAP HANA PLATFORM

- SAP HANA Native Applications
- Non-Native SAP HANA Applications

Lesson 25 - SAP HANA in Cloud overview

- Access to HANA systems in cloud
- SAP HANA Developer Edition Environment

Lesson 26 - MIGRATION TO SAP HANA

Lesson 27 - SAP BW Powered by HANA

Lesson 28 - SAP ERP on HANA

Lesson 29 - SAP CRM on HANA

Lesson 30 - SAP HANA Rapid Deployment Solutions (RDS)