**SAP HAHA COURSE CONTENT**

**Unit 1) SAP HANA Overview**

• Introduction to SAP HANA

• In-Memory Strategy

• SAP HANA components

• SAP HANA Architecture

• SAP HANA versions

• SAP HANA Editions

• Installation of Hana Systems on ERP, CRM, SRM, SCM and NetWeaver 7.4

• SAP HANA Landscape

**Unit 2) SAP HANA Sizing**

• SAP HANA In-Memory Database Sizing elements

• RAM, Disk, CPU

• Memory Sizing

• CPU Sizing

**Unit 3: SAP HANA Installation**

• Perquisites for SAP HANA installation

• Verify Hardware and Operation System

• SAP HANA Server Installation

• SAP HANA Studio Installation

• SAP HANA Client Installation

**Unit 4: SAP HANA Administration Tool Overview**

SAP HANA Studio

• DBA Cockpit

• HDBSQL Command Line Tool

**Unit 5) System Administration**

Starting and Stopping SAP HANA Systems

• Start a System

• Stop a System

• Restart a System

• Stop and Start a Database Service

• Monitoring SAP HANA Systems During Stop and Start

**Unit 6) Setting Up and Configuring Multitenant Database Containers**

• Convert an SAP HANA System to Support Multitenant Database Containers

• Create a Tenant Database

• Adding Single and Multitenant Databases to Hana Studio

• Stop and Start a Tenant Database

• Drop a Tenant Database

• Managing Resources in Multiple-Container Systems

• Migrated Statistics Server into Embedded Statistics Server

• System Views in Multiple-Container Systems

**Unit 7) Managing SAP HANA Licenses**

• License Keys

• Check the Current License Key

• Install a Permanent License

• Delete an Existing Permanent License Key

**Unit 8) Managing Tables**

• Column-Based and Row-Based Storage in the SAP HANA Database

• Memory

• Management in the Column Store

• The Delta Merge Operation

• Data Compression in the Column Store

• Opening Tables and Views

• Converted Row Store Tables to Column Store tables

• Viewing Options for Tables and Views

• Export Tables and Other catalog Objects

• Import Tables and Other catalog Objects

• Database Save Points

**Unit 9) SAP HANA Pre & Post Installation**

• Preparing HANA Installation

• Further Function on SAP HANA On-site configuration Tool

• Post-Installation Steps

**Unit 10) SAP HANA Operation**

Starting and stopping SAP HANA

• Configuring SAP HANA

• Periodic and Manual Tasks

**Unit 11) Backup & Recovery**

• Concept of Backup and Recovery

• Configure backup settings

• Data area Backup

• Log area Backup

• Backup of configuration files and Backup catalog

• Backup up of Tenant databases

• Recovery

**Unit 12) Maintaining Users and Authorization**

• Users management

• Types of privileges

• Roles

• Assigning Role to User

• Assigning Privileges to Roles

• System privileges

• SQL privileges

• Package privileges

• Granted role privileges

• Object privileges

**Unit 13) Monitoring and Troubleshooting**

• Monitoring with SAP HAN Studio

• Monitoring with DBACOKPIT

• Monitoring HANA Landscape

• System Monitoring

• Status Overview

• Services Overview

• System Load History

• Disk Usage Details

• Checking System Configuration

• Alerts

**Unit 14) SAP HANA Lifecycle Management**

• SAP HANA Platform Lifecycle Management

• SAP HANA Application Lifecycle Management

**Unit 15) Advanced HANA**

• SAP HANA System Copy

• SAP HANA System Migrations

• SAP HANA Database Upgrade from SP9 to SP10 to SP11

• SAP HANA Addon Deployment