



SAP BASIS Training Curriculum

STRUCTURE



SAP S4 HANA BASIS Training Curriculum

“Master all essential administration skills and establish yourself as a skilled SAP BASIS administrator right away!”

Course Objectives:

- Give you first break in SAP
- Teach you various aspects of a valuable enterprise skillset
- Help you understand enterprise processes
- Prepare yourself for SAP BASIS Global Certification Exam
- Start applying for jobs and Earn HUGE.

Course Description

SAP BASIS refers to the administration of SAP system that includes activities like installation and configuration, load balancing, and performance of SAP applications running on Java stack and SAP ABAP. It includes the maintenance of different services related to database, operating system, application and web servers in SAP system landscape and stopping and starting the system. These videos will walk you through the different features of SAP Basis.

Basis training imparts the essentials to optimally manage the technical architecture and enable uninterrupted communication between the server infrastructure, business application and the software. This implies during the training; the participants will be skilled enough to administer communication between different types of the operating systems and the databases running for data storage and updates. The experienced trainers will impart various capabilities through advanced teaching skills in instructing Basis concepts.

By the end of the SAP Basis Training, you will exhibit the following skills:

- Understand the functionality and architecture of R/3, the comprehensive set of integrated business applications
- Describe system central interfaces including work process architecture, services, and process
- Understand the installation and post installation activities
- Configuring and administering different operation modes
- Monitor background processing and handle performance tuning
- Work on Profile management to configure Memory, CPU, Buffer process
- Connect to different databases and configure the associated services
- Control the access methods and administer single/mass user

Course Content

Module 1: SAP BASIS Overview

- Introduction to SAP BASIS
- Introduction to SAP NetWeaver
- SAP BASIS Benefits and Benefits of Net weaver
- BASIS Roles and Responsibilities
- SAP BASIS GUI Download
- SAP BASIS GUI Installation
- Add a System to SAP GUI
- Applying Sap License
- STMS Configuration between Landscapes
- Creating RFC Connections
- Import the profiles into SAP level
- Other post installation activities

Module 2: SAP BASIS and R/3 System

- R/3 System Basics
- SAP BASIS Logging on to R/3 System
- Starting R/3 System
- Starting R/3 Instance
- Process Overview at the Operating System Level
- Assigning Parameter Values R/3 Startup Logs and Traces
- Startup Diagnostics
- Database Startup Logs and Traces
- Before Stopping the R/3 System
- Stopping the R/3 System
- Stopping R/3: Error Diagnostics
- The System Central Interfaces
- Dispatcher Process
- Work Process Architecture
- Work Process Types (Dialog, Background, Spool, Enqueue, Update, Message & Gateway Servers)

Module 3: R/3 Kernel Architecture

- The Dialog Work Process
- Work Process Multiplexing and SAP Transactions
- Transaction RZ10
 - Profile Maintenance
 - Maintaining R/3 Profiles
 - Changing R/3 Profile Parameters
 - Checking and Comparing R/3 Profiles
- Locks in R/3 at the Business Process Level
- Requesting a Lock from the Enqueue

- Asynchronous Update
- Updating Log Records
- Long-Running ABAP Programs
- Background Job Processing
 - Why Background Processing?
 - What is a Background Job?
 - Job Overview Options
 - Monitoring Jobs
 - Scheduling of Jobs and Workload Balancing
 - Reservation for Class A Jobs
 - Using the System Administration Assistant
 - Defining a Job Using the Job Wizard
 - Executing Programs as Job Steps
 - Start Conditions of a Job
 - Definition and Triggering of Events
 - Status of a Job
 - Deleting Background OBS
- Kernel Management
- Check Kernel Version
- Kernel Update & Download

Module 4: CCMS Administration and RFC in SAP BASIS

- CCMS Configuration
- CCMS: Overview
- Setting Up the CCMS
- Using the System Administration Assistant
- CCMS Monitoring Authorization
- Configure Trusted RFC
- Create Trusted RFC Connections

Module 5: Operation Modes and Support Phase

- Operation Modes
 - Choosing an Operation Mode
 - Using the System Administration Assistant
 - Setting Up Operation Modes/Instances
 - Adapting Instance Definitions and Operation Modes
 - Operation Mode Switch: Advantage
 - Scheduling Operation Modes
 - Switching Operation Modes Manually
 - Operation Mode Switch Diagnostics
- Support Phase
 - Handling the End User Problems
 - Work Process Monitoring
 - Back ground Job scheduling & administration
 - Daily system Monitoring & Updating

- Logon Load Balancing to dynamically to load between the systems
- Profile management to configure Memory, CPU, Buffer process
- Operation Modes to Dynamically Switch between the processes

Module 6: Client & User Administration

- Create a Client
- Copy client on local system
- Copy client on remote system
- Import Export Client
- Delete a Client
- Troubleshooting client copies
- Create a new user
- Password Reset options
- Password Policy
- Lock/Unlock a User
- Login attempts for a User
- Troubleshooting User Accounts

Module 7: Patch Management, Change and Transport Management System

- SAP DATA types
- Change request creations
- Configuration of Transport Domain
- Add a system to Transport management system
- Distributing and verifying TMS Configuration between systems
- Creating the Transport Layer, Transport Routes, and Transport Groups
- Import transport request to between systems
- Import export objects in TMS
- Support packs & Enhancement packages, add-ons, plug-in
- Support patches, Add-ons, and Enhancement upgrade procedure
- Implement Support Packages
- SPAM load and Update
- Importing a Queue

Module 8: Databases

- Database Overview
 - Reviewing Database Architecture
 - Connecting to the Database
 - Using Database Administration Tools
 - Administrating Oracle Instances
- Backup, Restore and Recovery
 - Reviewing a Backup Strategy
 - Reviewing Backup Tools
 - Performing Backups
 - Performing Restore and Recovery

- Working with Advanced Backup Techniques
- Monitors and Tools
 - Introducing Oracle Data Management
 - Managing Database System Check
 - Explaining CCMS Alert Monitor
- Space Management
 - Administrating "Table Spaces"
 - Performing Reorganization of Tables
 - Housekeeping and Troubleshooting
- Oracle Cache Management
 - Introducing Oracle System Global Area
 - Introducing Automatic Oracle Program Global Area (PGA)
- Monitoring of the Database Instance
 - Using the DBA Cockpit to Monitor the Database
 - Understanding the DBA Cockpit support of Oracle database features
- Application Design Analysis
 - Understanding the Impact of Expensive SQL Statements
 - Using SM50/SM66 to Find Expensive SQL Statements
 - Using ST03/STAD to Find Expensive SQL Statements
 - Using ST04 to Find Expensive SQL Statements
 - Using SQL Trace to Find Expensive SQL Statements
 - Monitoring Exclusive Lock Waits
- Index Management and Optimization
 - Utilizing Indexes
 - Creating an Index
- Cost-Based Optimizer
 - Updating Statistics
 - Detecting problems with Optimizer statistics
- Analysis of Physical and Logical Layout
 - Defragmenting Indexes
 - Working with I/O Contention
- Memory Configuration Analysis
 - Describing Data Buffer Utilization
 - Analyzing Efficiency of Shared Pool
 - Monitoring the Automatic Program Global Area (PGA)
- Wait Interface and Automatic Workload Repository
 - Observing Oracle Wait Interface
 - Reviewing Automatic Workload Repository and Histories

Module 9: SAP Security and Performance Tuning

- Introduction to workload analysis
- Performance analysis monitors
- R/3 memory management
- SAP Security Overview
- Single user administration

- Mass User administration
- LSMW Script running
- Central User administration (CUA)
- Role Administration and authorizations concept
- Missing authorization
- SAP Printing system
- SAP Spool system Architecture
- Introduction to SAP Access Methods
- Defining R/3 Printer Devices
- Managing spool Requests
- The SAPLPD Driver Program
- TEMSE object Database

Module 10: Placement Guide

- What is an Interview?
- Tips to clear an Interview
- Common Interview questions and answers
- SAP S4 HANA BASIS Interview Questions and Answers
- Resume Building Guide
- Attempt for SAP S4 HANA BASIS Global Certification Exam
- Start applying for Jobs