

Introduction to SAP Basis

- **Overview of SAP Basis**
 - SAP System Architecture
 - Introduction to SAP NetWeaver and its Components
 - SAP Landscape and Client Concepts
 - System Start/Stop Procedures
 - SAP GUI and Navigation

SAP Installation and Configuration

- **SAP Installation**
 - Prerequisites for SAP Installation
 - SAP ERP Installation
 - Post-Installation Activities
 - SAP License Management
 - System Profiles and Parameter Configuration
- **System Configuration**
 - SAP Instance and System Landscape Configuration
 - Managing System Profiles and Parameters
 - Configuring Operation Modes
 - SAP Logon Groups Configuration
 - Setting Up Transport Management System (TMS)

User and Authorization Management

- **User Administration**
 - Creating and Managing Users
 - User Roles and Authorization Concepts
 - Profile Generator (PFCG)
 - Password Policies and User Groups
 - Central User Administration (CUA)
- **Authorization Management**
 - Role Design and Authorization Assignments
 - Authorization Objects and Field Values
 - Troubleshooting Authorization Issues
 - Security Audit Log (SM19/SM20)
 - Segregation of Duties (SoD) and Compliance

Client Administration

- **Client Management**
 - Client Concept and Architecture
 - Creating, Copying, and Deleting Clients
 - Client Export and Import
 - Client-Specific Data and Cross-Client Data
 - Client Transport and Synchronization
- **Client Copy and Transport**
 - Types of Client Copy: Local, Remote, and Client Export/Import
 - Managing Client-Specific Data in Different Landscapes
 - Using Transaction SCC1 for Client Copy
 - Troubleshooting Client Copy Issues
 - Client Comparison and Consistency Checks

SAP Kernel and Software Management

- **Kernel Administration**
 - SAP Kernel Overview and Components
 - Kernel Upgrade and Patch Management
 - Applying SAP Notes (SNOTE)
 - Monitoring and Troubleshooting SAP Kernel
 - SAP System Monitoring: CCMS
- **Software Logistics**
 - SAP Support Packages and Patching
 - Enhancement Packages (EHP) Installation
 - SAP Add-Ons and Plugins Management
 - Transport Management System (TMS) Overview
 - Managing Transports: Export, Import, and Troubleshooting

System Monitoring and Performance Tuning

- **System Monitoring**
 - Monitoring SAP Systems: Transactions ST02, ST03, and ST06
 - Analyzing System Logs and Performance Data
 - Managing SAP Buffers and Memory
 - Monitoring Background Jobs (SM37)
 - EarlyWatch Alerts and Performance Recommendations
- **Performance Tuning**
 - Optimizing SAP System Performance
 - Database-Specific Tuning (Oracle, MS SQL, HANA)
 - Workload Analysis and Optimization
 - Performance Tuning for ABAP Programs
 - Troubleshooting Performance Issues

Database Administration

- **Database Management**
 - SAP and Database Architecture
 - Database Backup and Recovery Strategies
 - Database Monitoring and Maintenance
 - Performance Tuning at the Database Level
 - Database Patching and Upgrades
- **Advanced Database Administration**
 - Managing Tablespace and Data Files
 - Indexes and Statistics Management
 - Archiving and Data Retention Strategies
 - Database Security and User Management
 - Troubleshooting Database Issues

Background Job Management

- **Job Scheduling and Monitoring**
 - Scheduling Background Jobs (SM36)
 - Monitoring and Analyzing Background Jobs (SM37)
 - Job Logs and Spool Administration
 - Managing Long-Running and Critical Jobs
 - Troubleshooting Job Failures

- **Advanced Job Management**
 - Job Chains and Dependencies
 - Job Documentation and Reporting
 - Automating Job Management
 - Using External Job Schedulers with SAP
 - Optimizing Background Processing for Performance

SAP System Security

- **Security Concepts**
 - SAP Security Overview
 - User Authentication and Password Policies
 - Secure Network Communication (SNC)
 - SAP Router and Network Security
 - Implementing SSL in SAP Systems
- **Advanced Security Management**
 - SAP Role Design and Authorization Auditing
 - Configuring and Monitoring Security Audit Logs (SM19/SM20)
 - Advanced User Management: UME, SAP IDM
 - Integrating SAP with External Authentication Systems
 - Compliance and Audit Requirements in SAP

SAP Printing and Spooling

- **Spool Administration**
 - Configuring and Managing Output Devices
 - Spool Work Processes and Queues
 - Troubleshooting Spool and Print Issues
 - Output Management and Document Archiving
 - Advanced Print Settings and Optimization
- **Advanced Spool Management**
 - Spool Consistency Checks and Cleanup
 - Managing Large-Scale Printing Environments
 - Print Server Integration and Configuration
 - SAP Interactive Forms and Adobe Document Services
 - Advanced Spool Troubleshooting and Optimization

Transport Management System (TMS)

- **Transport System Overview**
 - Setting Up TMS and Transport Routes
 - Transport Layers and Groups
 - Importing and Exporting Change Requests
 - Transport Directory Structure and Files
 - Troubleshooting Transport Issues
- **Advanced Transport Management**
 - Managing Non-ABAP Transports
 - Distributed System Landscape Transport Management
 - Transport of Copies and Transport Tools
 - Transport Control Program (tp) and Command Line Utilities
 - Best Practices in Transport Management

SAP Upgrades and Patching

- **SAP System Upgrades**
 - Planning and Preparing for an SAP Upgrade
 - Performing SAP System Upgrades (SUM)
 - Post-Upgrade Activities and Testing
 - Managing SAP Enhancement Packages (EHP)
 - Troubleshooting Upgrade Issues
- **Advanced Patch Management**
 - SAP Support Pack Stack Management
 - Implementing and Rolling Back SAP Patches
 - Patch Management in Distributed Landscapes
 - Using Maintenance Planner for Patch Management
 - Best Practices for Patch and Upgrade Management

SAP Solution Manager

- **Introduction to Solution Manager**
 - Overview of SAP Solution Manager Capabilities
 - System Monitoring and Alerting with Solution Manager
 - Change Management and CTS Integration
 - Solution Documentation and Process Management
 - Root Cause Analysis using Solution Manager
- **Advanced Solution Manager Usage**
 - Implementing Application Lifecycle Management (ALM)
 - IT Service Management (ITSM) and ChaRM
 - Monitoring Hybrid Landscapes with Solution Manager
 - Advanced Configuration of Solution Manager
 - Integrating Solution Manager with Third-Party Tools

SAP HANA Overview for Basis Administrators

- **Introduction to SAP HANA**
 - Understanding In-Memory Computing
 - SAP HANA Architecture and Components
 - Installing SAP HANA as a Database
 - SAP HANA Studio and Administration Tools
 - SAP HANA Security and User Management
- **SAP HANA Administration**
 - Backup and Recovery in SAP HANA
 - HANA Performance Tuning and Optimization
 - Monitoring and Troubleshooting SAP HANA
 - Data Provisioning and Integration with SAP HANA
 - Managing SAP HANA in SAP Landscapes

Capstone Projects

- **Real-World SAP Basis Administration Project**
 - Full SAP System Installation and Configuration
 - Managing System Performance and Tuning
 - Implementing Advanced Security Measures
 - Handling Upgrades and Patches in a Live Environment
 - End-to-End SAP Landscape Management



Python / ML

- **Advanced SAP System Integration Project**
 - Integrating SAP with Third-Party Systems
 - Configuring and Managing Transport Across Landscapes
 - Implementing High Availability and Disaster Recovery
 - Performance Monitoring and Optimization
 - Managing a Global SAP Landscape