

SAP Technical Modules

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SAP Basis Administration

This course aims to lay a foundation for starting a career with SAP Administration. SAP Basis Administration is intended for participants with basic knowledge of client/server technology in the enterprise computing environment, who want to pursue work as an SAP Basis Administrator, or want to prepare for the SAP Certified Basis Consultant examinations

Group rates available – Inquire for more details

Duration: 60+ hours

Prerequisites

- Good knowledge of the client/server technology.
- Good knowledge of operating systems.
- Have fair knowledge in using Windows desktop

Course Content

Introduction to ERP and SAP

- Introduction to SAP.
- Overview of ERP and SAP - SAP Terminology
- Introducing frequently used SAP terminology.
- Logging in to a SAP system
- SAP logon process for Windows
- Basic SAP Navigation - the basic SAP screen components, moving between menus, T-code searches and other commonly used functions.
- End User Customization - customizing some SAP screens. Using T-codes – View user information, logged in users, user creation, sending messages, technical and functional modules.
- Various SAP functional modules, log off from SAP system - SAP logoff process for Windows, SAP services, co-operative business scenarios, mySAP.com

SAP Web AS Implementation and Operation I

TADM10_1

- SAP Solutions
- Navigations
- System Kernel
- Software Development in SAP System
- Communication and Integration Technologies
- Tools for SAP System Administration
- SAP NetWeaver and Enterprise
- Starting and Stopping SAP System
- Introduction to System Configuration
- Fundamentals of working with the Database

- Basics of User Administration
- Setting-up Remote Connections
- Working with TMS
- Support Packages, Plug-Ins, Add-Ons
- Scheduling Background Tasks

TADM10_2

- JAVA Fundamentals
- Starting and Stopping a SAP Web AS Java
- Installation in the SAP Web Application Server Java Environment
- Basic Configuration of SAP Web AS Java
- User Administration in the Java Environment
- Monitoring SAP Web AS Java
- Change Management and Software Logistics in the SAP Web AS Java Environment
- Importing Corrections
- Backing Up SAP Web AS Java

SAP Web AS Implementation and Operation II

TADM12_1

- mySAP ERP Solution Architecture
- Planning the Installation of SAP ERP Central Component
- Preparing for the Installation of SAP ERP Central Component
- Installing SAP GUI
- Installing SAP ERP Central Component
- Performing Post-Installation Activities
- Implementing Patches
- Converting Non-Unicode to Unicode
- Troubleshooting Installation Problems
- Introduction to Software Logistics
- Setting Up an SAP System Landscape
- Customizing and Development in ABAP
- Transport Management in ABAP
- Client Tools
- Note Assistant, SAP Support Packages and Upgrades

TADM12_2

- Introduction to Workload Analysis
- Performance Analysis Monitors
- SAP Memory Management
- Hardware Capacity Verification
- Expensive SQL Statements
- SAP Table Buffering
- RFC Monitoring
- Access to Help
- Introduction to System Security
- Archiving
- Including Printers in SAP Systems

- Structured Troubleshooting
- Advanced User Administration Topics

SAP Web AS DB Operation (Oracle)

TADM51

- Database Overview
- Backup, Restore & Recovery
- Monitors and Tools
- Storage Management

SAP R/3 Security Administration

This course provides skills training on the SAP R/3 Basis technology basics and R/3 Security concepts.

Group rates available – Inquire for more details

Duration: 35 hours

Upon completion of this course, students should be able to:

- Gain knowledge of the R/3 client/server architecture.
- Will also have valuable hands-on experience in R/3 security administration.

Prerequisites

- Participants must have a basic knowledge of the LAN technology and knowledge of operating systems.
- It is recommended that the participants should have attended the SAP R/3 Basis Administration course or equivalent.
- Basic understanding and knowledge of PC operation and Windows use is required.

Course Content

- Introduction to ERP and SAP
- Introduction to SAP.
- Overview of ERP and SAP - SAP Terminology
- Introducing frequently used SAP terminology.
- Logging in to a SAP system
- SAP logon process for Windows
- Basic SAP Navigation - the basic SAP screen components, moving between menus, T-code searches and other commonly used functions.
- End User Customization - customizing some SAP screens. Using T-codes – View user information, logged in users, user creation, sending messages, technical and functional modules.
- Various SAP functional modules, log off from SAP system - SAP logoff process for Windows, SAP services, co-operative business scenarios, mySAP.com
- Enterprise Structure

ADM940 - SAP Authorization Concept

Objective:

- Learn about the elements, strategies, and tools of the SAP authorization concept
- Create and assign authorizations using the Profile Generator
- Use the Central User Administration (CUA) tool

Course Content

- Introduction
- Elements of the SAP authorization concept
- User master record
- Using the Profile Generator (roles, composite roles, reference roles, derived roles, Customizing roles)
- Profile Generator: installations and upgrades
- Access control and user administration (password rules, special users, user and authorization administration)
- Analysis and monitoring functions
- Special authorization components, use of area menus
- Transport of authorization components
- Central User Administration (CUA) Integration with organizational management, with reference to an example (without structural authorization in HR)

ADM950 - Secure SAP System Management

Objective:

- Identify and protect sensitive data in production systems
- Configure the Audit Information System for a system security audit
- Configure important security monitoring and tracing mechanisms
- Use the Audit Information System to conduct a thorough system security audit
- Explain use of the standard SAP role maintenance tools to produce company-specific, security-enhanced roles and authorization profiles
- Secure transaction access, table access, program execution, and developer access
- Secure change management mechanisms in productive system landscapes
- Secure system administration tools against misuse

Course Content

- mySAP System Security Goals and Methods
 - SAP services provided for security
 - Role maintenance tool
- Configuring and Using the Audit Information System
 - Purpose and history of AIS
 - Configuration of AIS for system audits
- Configuring and Using Basis Security Audit Tools
 - Configuration of the Audit Log
 - Reading the Audit Log
 - Using the Audit Log with CCMS Security Alerts
- Controlling Transaction Codes, Tables, Programs
 - Auditing the protection of transaction code execution
 - Auditing the protection of direct table access

- Auditing the protection of direct program execution
- Auditing the protection of developer access
- Controls and Logs
 - Application, Web flow, Table Logs
 - Change Documents, Transport, and Authorization logs
- Customizing Role Maintenance Utilities
 - Auditing the use of role maintenance tool
- Securing User and Group Administration
 - User Information System for Audits
 - Decentralized security approaches
 - Trace tools for users that can be used to support audits
 - Auditing standard SAP users
 - Auditing user related security parameters
- Change Management and Security
 - SAP recommended system landscape
 - Approval processes for change management
 - Auditing system change options and client change options
 - Roles and responsibilities for change management
- Securing System Administration Services in Production
 - Auditing security for background processing
 - Auditing security for spool, operating system commands
 - System authorizations required for end-users
 - Auditing RFC destinations

ADM960 - Security in SAP System Environment

Objective:

- This course will prepare you to raise awareness about security topics & improve security in an SAP system environment

Course Content

- Fundamentals and objectives of system security
 - Authentication and encryption
- Network basics
 - Communication, TCP/IP, ports
 - Routing, firewalls, proxies, SAProuter
- Security in the SAP system
 - Authentication and passwords
 - Auditing as intrusion detection

- RFCs, trusted RFCs, RFC destinations
- Encryption, SNC

- Cryptography basics, PKI, TCS

- SAP Web AS, ITS, - ICM
 - Encryption, SSL, SNC
 - Authentication, certificates, Single Sign-On

- Logon tickets, X.509, SSL, PAS

- Collaboration and network security
 - DMZ, intrusion detection
 - Application security: digital signatures

SAP ABAP (Advanced Business Application Programming)

ABAP is a very high level programming language. It is currently positioned, alongside the more recently introduced Java, as the language for programming SAP's Web Application Server, part of its NetWeaver platform for building business applications.

Group rates available – Inquire for more details

Duration: 60 hours

Course Content

Introduction to SAP ABAP

- Introduction to SAP application server SAP R/3 architecture.

ABAP Development Workbench Tools

- Object Navigator
- Workbench Organizer, Data Dictionary
- Menu Painter, Screen Painter

ABAP Dictionary

- **Tables**
 - Two level domain concept
 - Technical setting
 - Table access performance
 - Input checks
- **Views**
 - Search Help
 - Lock Objects

ABAP Programming Techniques

- **Reports Statement**
 - Line size
 - Line-count
 - Message
 - Page heading
 - Report comment section
- **Declarations**
 - Tables
 - Includes
 - Variables (Data Types and Data Objects)
 - Structures
 - Internal table

- Constants
- **Selection Screen / Input Fields**
 - Parameters
 - Select - Options
 - Section screen formatting
- **Program Events**
 - Initialization
 - Start of selection and end of selection
 - At selection screen
 - At line selection
 - At user - Command
- **Formatting and Displaying Data**
 - Event for page headers and footers
 - Display options

Internal Table Operations

- Subroutines
- Function group and modules
- Logical database
- Variants

Data Transfer Methods

- Overview of data transfer
- External Data Access
 - Data analysis and data files
 - Upload and download data from / to presentation server
- Standard data transfer program
 - Direct input method
 - BDC program
 - Call transaction program
- Transaction recorder
- Data Transfer Workbench concepts
- Legacy System Migration Workbench (LSMW)
- ABAPs (Introduction as a data transfer method)

Dialog Programming

- Introduction to Dialog Programming
- Screen Painter
- Screen elements for Input/Output

Subscreens

- Tabstrips
- Table Controls

Menu Painter Create

- GUI status & Title bar
- Create menu bar for a screen
- Define function keys
- Create Application Tool Bar for a screen

Screen Flow Logic

- Understand screen flow logic
- Create process after Input and process before output modules
- Use message for error processing
- Call list processing within a transaction

Performance Tuning

- Types of program analysis
- Static checks
- Dynamic checks and short dump analysis

ABAP Debugger

- Breakpoints in programs
- Breakpoints in the debugger
- Watchpoints

Performance Tools

- Runtime analysis
- SQL trace

List Creation

- Introduction
- Quick viewer
- SAP Query
 - Understand core functionality of SAP R/3 ABAP Query
 - Explain the relationship between a user group, info set and query report.
 - Utilize the appropriate user groups and info sets to develop queries.
 - Create list.
 - Saving lists and background processing

SAP Portal 7.0 (EP) - Basics

Group rates available – Inquire for more details

Duration: 30 hours

Objective

- Perform SAP system administration tasks
- Describe how the Enterprise Portal on Web AS 6.40 fits into the big picture of SAP's product offerings
- Understand how the portal looks and feels to an end user
- Understand the technical infrastructure and security of the Enterprise Portal on Web AS 6.40
- Describe basic portal content objects
- Describe the use and purpose of the Knowledge Management and Collaboration offerings

Prerequisites

- Data processing knowledge
- Experience implementing and operating SAP systems using SAP R/3 4.6B or SAP Web AS 6.20

Course Content

Fundamentals of SAP Web Application Server

- Introduction to SAP NetWeaver and the application platform, navigation in SAP systems
- Architecture of SAP Web Application Server
- Fundamentals of SAP system administration:
 - Starting and stopping an SAP system
 - System configuration options in SAP Web AS ABAP
- User administration, system monitors in SAP Web AS Java and SAP Web AS ABAP
- Fundamentals of SAP Web AS Java
- Basic configuration of SAP Web AS Java
- Patching for SAP Web AS Java
- Change management and software logistics for SAP Web AS Java
- Configuration of integrated SAP Internet Transaction Server (SAP ITS) and use of SAP GUI for HTM
- Internet technologies in the SAP environment:
 - SAP ITS, SAP ICM, SAP Web Dispatcher

Implementation & Operation SAP Web AS (Java & ABAP)

- Fundamentals of SAP Web AS Java
- Starting and stopping
- Basic configuration of SAP Web AS Java
- User administration in SAP Web AS Java

- Monitoring SAP Web AS Java
- Patching for SAP Web AS Java
- Change management and software logistics for SAP Web AS Java
- Other topics related to system administration for SAP Web AS Java
- Configuration of integrated SAP Internet Transaction Server (SAP ITS) and use of SAP GUI for HTML
- New features in SAP Web Dispatcher and ICM

SAP Enterprise Portal Fundamentals

- Big Picture (Purpose of the SAP Enterprise Portal, Advantages of implementing an Enterprise Portal, The portals role in SAP NetWeaver)
- End User Perspective (Logging on to the portal, Portal screen elements, Personalization)
- Technical Infrastructure and Security (Architecture overview of portal platform, SAP's user management engine (UME), Security)
- Portal Platform Content (Content object model, Working with iViews, Working with Pages, Working with worksets and roles)
- Knowledge Management and Collaboration (Knowledge Management Overview, Search and Classification Overview, Collaboration Overview)

SAP Enterprise Portal Applications

- Portal Platform Content
 - Content object model
 - Creating iViews, Pages, Worksets, and Roles
 - Delta links
 - Delegated content administration
 - Business packages
- System Administration
 - Transports
 - Role and User Distribution
 - Portal Display
 - Creating System objects
 - Distributed Query Engine
- User Management
 - UME Configuration
 - Delegated User Administration
 - Anonymous Access
 - User management tools
- Security
 - Authentication
 - Authorization
 - Network Security
 - Single Sign-on to SAP and web application

SAP BI Certified Application Associate (Business Intelligence with SAP NetWeaver 7.0)

This certification test verifies the knowledge in the area of the SAP NetWeaver Business Intelligence solution for the consultant profile SAP NetWeaver Business Intelligence. This certificate builds on the basic knowledge gained by a BI Consultant and preferably refined by practical experience within a BI team and the Consultant can implement this knowledge of the specialist areas practically in projects.

Group rates available – Inquire for more details

Duration: 60+ hours

Objective

- Build proposed solutions by independently researching valid implementation options. Based on profound understanding and deep application skills, project requirements can be transferred into solid customer solutions.
- Accomplish and identify solutions for defined project tasks. Based on profound knowledge and basic understanding, identified tasks can be performed during system implementation, configuration and testing.

Course Content

- Introduction to SAP R/3, ECC and BW
- BW architecture
- Multi dimensional Modeling
- Star Schema, BW extended Star Schema
- Administrator Work Bench
- InfoObjects (attributes and texts and hierarchies)
- InfoCubes, Transactional (Real-time) InfoCubes,
- ODS (DSO) – Standard, Transactional and Write Optimized
- PSA, Source Systems
- InfoSource
- InfoPackage
- Transfer Rules
- Update Rules
- Transformation
- Data Transfer Process
- Loading Master Data using flat files
- Loading transaction data using flat files
- ODS - Change Log, Active Table and New Table
- Managing Delta using ODS
- MultiProviders
- Process Chains
- Open Hub service
- Data Marts
- InfoSpokes

- Open Hub Destination
- Aggregates
- Activating the Business content
- Loading Master data from ECC
- Delta Management
- Various types of R3 Extractors
- Extraction from LO Cockpit
- User Exits
- SAP landscape and Transports
- Real Time Data Acquisition
- BEx reporting – BEx Query Designer, Calculated and Restricted Key
- Figures, Variables (Characteristic, Formula and Text Variables)
- Query properties, Exceptions and Conditions, BEx Analyzer
- Workbooks, Report to Report Interface (RRI)
- Information Broadcasting
- Web Application Designer
- Report Designer
- Generic Extractors
- InfoSets
- Slowly changing dimensions and realignments
- Universal Data Connect (UDC)
- BW and XI integration
- BW and APO integration
- Business Planning and Simulation (BPS)
- Mini Project