

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