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Lead With Skills.

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## SAP NetWeaver 04 Security Certification Preparation Training

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CLONESKILLS

The Global Training Company for Cultivating IT Leadership

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**We differentiate our training from others by delivering Role-Based SAP instruction rather than SAP Product focused Training.**

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<http://www.CloneSkills.com> , [JothiP@CloneSkills.com](mailto:JothiP@CloneSkills.com) , (916)-296-0228 - Page 1  
THE Global Training Company for Cultivating IT Leadership

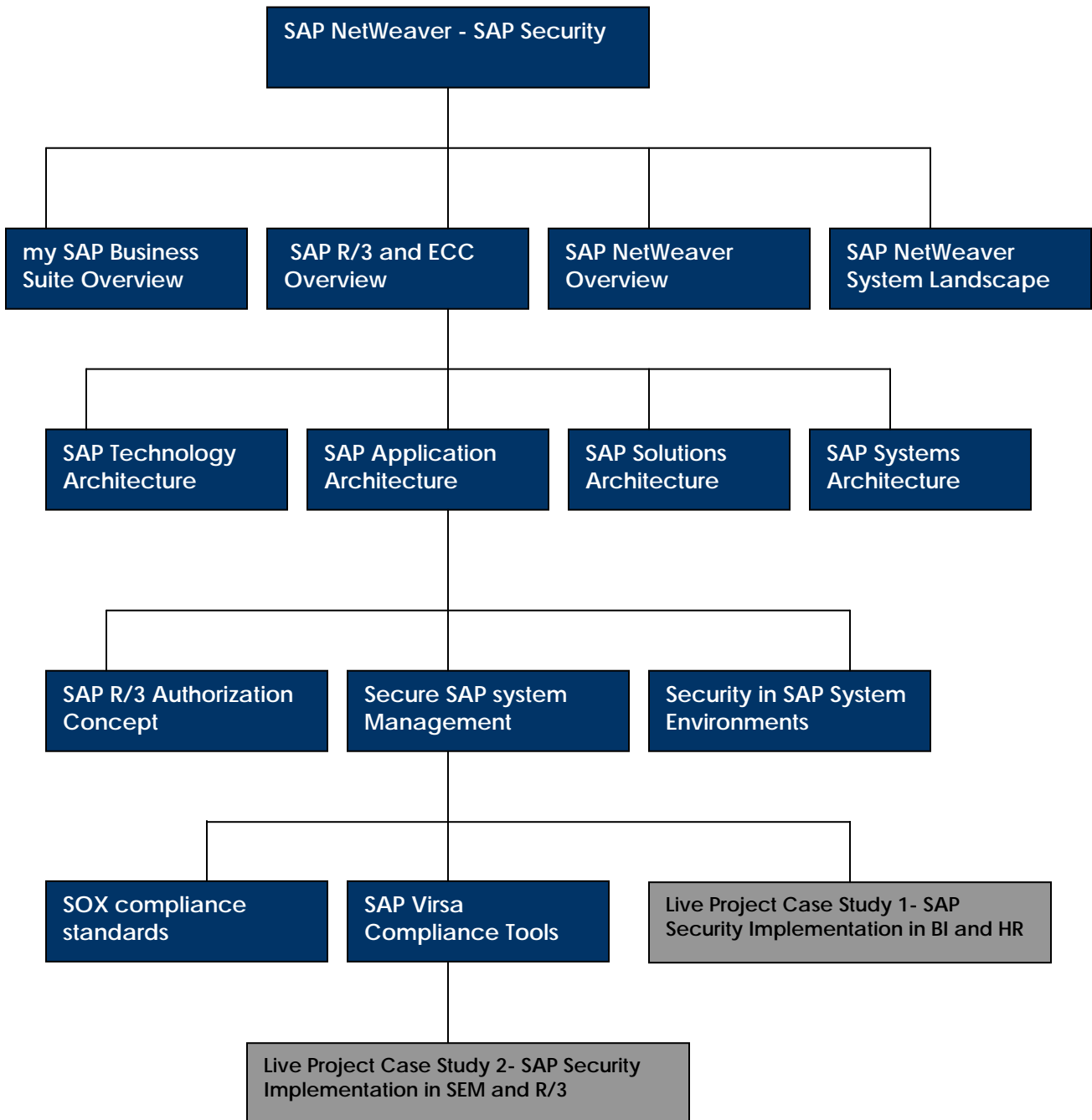
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## SAP NetWeaver 04 Security Certification Preparation Training

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### Training Roadmap



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## SAP NetWeaver 04 Security Certification Preparation Training

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### SAP NETWEAVER 04 SECURITY COURSE GOALS & OBJECTIVES

*(An UNIQUE Course for SAP NetWeaver 04 Security Certification)*

- |   |   |
|---|---|
| ✓ SAP R/3 and ECC Overview                | - Security Fundamentals                             |
| ✓ SAP NetWeaver Overview                  | - Security Fundamentals                             |
| ✓ SAP NetWeaver System Landscape          | - Security Fundamentals                             |
| ✓ SAP Systems & Application Architecture  | - Security Architecture                             |
| ✓ SAP R/3 Authorization Concept           | - Security Core                                     |
| ✓ SAP System Management                   | - Security Core                                     |
| ✓ SAP Security in SAP System Environments | - Security Core                                     |
| ✓ SOX Compliance and Standards            | - Security Add-on                                   |
| ✓ SAP Virsa Tools                         | - Security Add-on                                   |
| ✓ Sample Project                          | - SAP HRMS Security and Centralized Role Definition |

#### COURSE GOALS

- Describe the basic concepts behind SAP NetWeaver and mySAP Business Suite
- Demonstrate your ability to use navigation options in the system efficiently
- Describe the architecture of the SAP Web Application Server and understand its foundations
- Describe the essential features of software development in the SAP environment
- Name and correctly evaluate interface technologies
- Name basic administrative tasks and demonstrate how to perform some of these tasks
- Outline the elements, strategies, and tools of the SAP authorization concept
- Generate and assign authorization profiles with the Profile Generator
- Work with the Central User Administration (CUA) tool
- Identify and protect sensitive data in production systems
- Use the SAP Audit Information System to structure and conduct a thorough security audit
- Configure important security monitoring and tracing mechanisms
- Configure standard SAP role maintenance tools to produce company-specific, security-enhanced roles and authorization profiles
- Secure change management mechanisms in production system landscapes
- Secure system administration tools against misuse

#### COURSE OBJECTIVES

- List the solutions offered by SAP
- Navigate in the system
- Describe the system architecture using the appropriate terminology
- Describe the process for development work in the SAP environment
- Name interface technologies in the SAP environment
- Name central administrative functions of SAP systems
- List the elements and objects of the authorization concept
- Explain the use and purpose of the Profile Generator
- Analyze authorizations
- Describe special objects for administrators
- Identify and protect sensitive data in production system
- Demonstrate use of the Audit Information System to structure and conduct a thorough security audit
- Configure standard SAP role maintenance tools to produce company-specific, security-enhanced roles and authorization profiles
- Secure change management mechanisms in production system landscapes
- Secure system administration tools against misuse

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<b>SAP NetWeaver 04 Security Certification Preparation Training Content</b>			
#	Course Topic	Session #	Session Duration
1	SAP R/3 and ECC Systems and Architecture Overview	1	6
2	SAP NetWeaver and Architecture Overview	1	6
<b>Quiz # 1</b>			
3	Authorizations in General	2	3
4	Basic Terminology of Authorizations	2	3
5	User Settings	2	3
<b>Quiz # 2</b>			
6	Working with Profile Generator	3	4
7	Basic Settings	3	4
<b>Quiz # 3</b>			
8	Transporting Authorizations	4	4
9	Integrating into the Company Landscape	4	4
<b>Quiz # 4</b>			
10	Use of Enterprise Portal	5	4
<b>Quiz # 5</b>			
11	Introduction to Internal Security Auditing	5	4
12	The SAP Audit Information System and Other SAP Security Monitoring Tools	6	4
13	Securing Systems through User, Role, and Authorization Maintenance	6	4
<b>Quiz # 6</b>			
14	Securing Production Systems	7	4
15	License Administration Workbench	7	4
<b>Quiz # 7</b>			
16	Fundamentals and objectives of system security	8	4
17	Network basics	8	4
18	Security in the SAP system	9	4
<b>Quiz # 9</b>			
19	Cryptography basics, PKI, TCS	9	4
20	SAP Web AS, ITS, - ICM	10	4
21	Logon tickets, X.509, SSL, PAS	10	4
22	Collaboration and network security	11	8
<b>Quiz # 10</b>			
23	SOX compliance standards	12	8
24	SAP Virsa Tools	13	8
25	Sample Project and Others	14 , 15 & 16	8
<b>Total Number of Sessions and Hours</b>		<b>14 Sessions</b>	<b>118 Hours</b>
<b>Project Objective:</b> To Improve participant's confidence level and provide hands-on implementation skills and knowledge.			

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<b>SAP NetWeaver 04 Security Certification Preparation Training Content</b>		
#	Session Topic	Session Details
1	SAP R/3, ECC and NetWeaver Overview	<ul style="list-style-type: none"> <li>▪ SAP R/3 Overview</li> <li>▪ SAP ECC Overview</li> <li>▪ SAP NetWeaver Overview</li> <li>▪ SAP Technology Architecture</li> <li>▪ SAP Systems Architecture</li> <li>▪ SAP Solutions Architecture</li> <li>▪ SAP Application Architecture</li> <li>▪ ABAP Programming Overview</li> </ul>
2	Authorizations in General	<ul style="list-style-type: none"> <li>▪ What Are Authorizations?</li> <li>▪ Creating and Implementing an Authorization Concept</li> </ul>
3	Basic Terminology of Authorizations	<ul style="list-style-type: none"> <li>▪ Elements and Terminology of the SAP R/3 Authorization Concept</li> <li>▪ Authorization Checks in the SAP System</li> </ul>
4	User Settings	<ul style="list-style-type: none"> <li>▪ Maintaining and Evaluating User Data</li> </ul>
5	Working with the Profile Generator	<ul style="list-style-type: none"> <li>▪ Profile Generator and Standard Roles</li> <li>▪ Special PFCG Roles</li> <li>▪ Subtleties of Authorization Maintenance</li> </ul>
6	Basic Settings	<ul style="list-style-type: none"> <li>▪ Profile Generator: Installation and Upgrade</li> <li>▪ Access Control and User Administration</li> <li>▪ Troubleshooting and Administration Aids</li> </ul>
7	Transporting Authorization	<ul style="list-style-type: none"> <li>▪ Transporting Authorization Components</li> </ul>
8	Integration into the Company Landscape	<ul style="list-style-type: none"> <li>▪ Integration into Organizational Management</li> <li>▪ Integration into Organizational Management</li> </ul>
9	Use of Enterprise Portals	<ul style="list-style-type: none"> <li>▪ Introduction to the mySAP Enterprise Portal Solution</li> </ul>
10	Introduction to Internal Security Auditing	<ul style="list-style-type: none"> <li>▪ mySAP System Security: Goals and Method</li> </ul>

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11	The SAP Audit Information System and Other SAP Security Monitoring Tools	<ul style="list-style-type: none"> <li>▪ Configuring and Using the Audit Information System</li> <li>▪ Configuring and Using Security Audit Tools</li> </ul>
12	Securing Systems through User, Role, and Authorization Maintenance	<ul style="list-style-type: none"> <li>▪ Controlling Access to Transaction Codes, Tables, and Programs</li> <li>▪ Using Logs to Monitor the Application</li> <li>▪ Customizing the Role Maintenance Tools in mySAP Solutions</li> <li>▪ Securing User and Group Administration</li> </ul>
13	Securing Production Systems	<ul style="list-style-type: none"> <li>▪ Change Management and Security</li> <li>▪ Securing System Administration Services in Production Systems</li> </ul>
14	License Administration Workbench	<ul style="list-style-type: none"> <li>▪ License Administration Workbench</li> </ul>
15	License Auditing Services, SAP AG	<ul style="list-style-type: none"> <li>▪ License Auditing Services, SAP AG</li> </ul>
16	Fundamentals and objectives of system security	<ul style="list-style-type: none"> <li>▪ Authentication and passwords</li> <li>▪ Auditing as intrusion detection</li> <li>▪ Authentication and encryption</li> <li>▪ Encryption, SNC</li> <li>▪ Cryptography basics, PKI, TCS</li> </ul>
17	Network basics	<ul style="list-style-type: none"> <li>▪ Communication, TCP/IP, ports</li> <li>▪ Routing, firewalls, proxies, SAProuter</li> </ul>
18	SAP Web AS, ITS, - ICM	<ul style="list-style-type: none"> <li>▪ Encryption, SSL, SNC</li> <li>▪ Authentication, certificates, Single Sign-On Logon tickets, X.509, SSL, PAS</li> </ul>
19	Collaboration and network security	<ul style="list-style-type: none"> <li>▪ DMZ, intrusion detection</li> <li>▪ Application security: digital signatures</li> </ul>
20	Sarbanes-Oxley Act	<ul style="list-style-type: none"> <li>▪ Impact of the Sarbanes-Oxley Act and other auditing standards (for example, ISA) that are relevant for the auditors on the audit process</li> </ul>
21	SAP Virsa Tools	<ul style="list-style-type: none"> <li>▪ SAP Virsa Tools - Continuous Compliance(TM) Suite</li> </ul>
22	Employment Focus	<ul style="list-style-type: none"> <li>▪ Risk Management and Organizational Change Management Overview</li> </ul>

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## SAP NetWeaver 04 Security Certification Preparation Training

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### Certification Details

<b>Certification Title</b>	:	SAP NetWeaver - SAP Security (2004)
<b>Certification Booking Code</b>	:	C_TADMSEC_04
<b>Certification Duration</b>	:	3 Hours
<b>Certification # of Questions</b>	:	80 Multiple Choice Questions
<b>Certification Reading Materials</b>	:	ADM940 (SAP R/3 Authorization Concept) ADM950 (Secure SAP system Management) ADM960 (Security in SAP System Environments)

### Certification weighting information

#### Topic Areas

#### 1. SAP R/3 Authorization Concept [++]

- Role administration using PFCG
- Authorization objects
- Authorization in Role administration
- User Buffer / Roles

#### 2. Securing Systems through user, role and authorization maintenance [++]

- Protect tables and transaction codes
- Applications-, Web Flow-, Change Tables Logs
- User Information System
- System Parameters

#### 3. Network Basics [+]

- Network ports
- Firewalls and DMZ
- SAP Router

#### 4. Cryptography and Encryption [+]

- Cryptography
- Certificates
- TCS
- SNC
- Digital signatures

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### **5. Internet Transaction Server Security [+]**

### **6. Single Sign-On [+]**

- PAS
- SAP Logon Tickets

### **7. Web-AS Security [++]**

- Load Balancing
- SSL
- Enterprise Portal Security

### **8. AIS and other Security monitoring tools [++]**

- Configure AIS
- Audit Log
- Monitoring

### **9. Protecting System Services [+]**

- Protect tables and programs
- Protect System Services, Background processing and spool

### **10. Tools for conducting security audits and goals for audits [+]**

- Security aspects to an audit
- Tools for an audit / questions

Amount of questions by topic (as percentage of test):

+ = 1 - 10%

++ = 11 - 20%

+++ = over 20%

### **Useful URL's:**

<http://www.sapsecurityonline.com/oss/oss.htm>

<http://www50.sap.com/useducation/certification/curriculum.asp?rid=372>

<http://www.soxinstitute.org/>

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### **Disclaimer:**

CloneSkills is an independent training and SAP solutions company, not affiliated to SAP AG or SAP America. At CloneSkills we exclusively promote the SAP NetWeaver Solutions and do not compete with SAP.

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