

CLONESKILLS, INC.

PREPARE TO LEAD.

LEAD WITH SKILLS.

Oracle Database 10G Administrator Certified Associate Preparation Training



Prepare to lead.
Lead with skills.

CLONESKILLS

The Global Training Company for Cultivating IT Leadership

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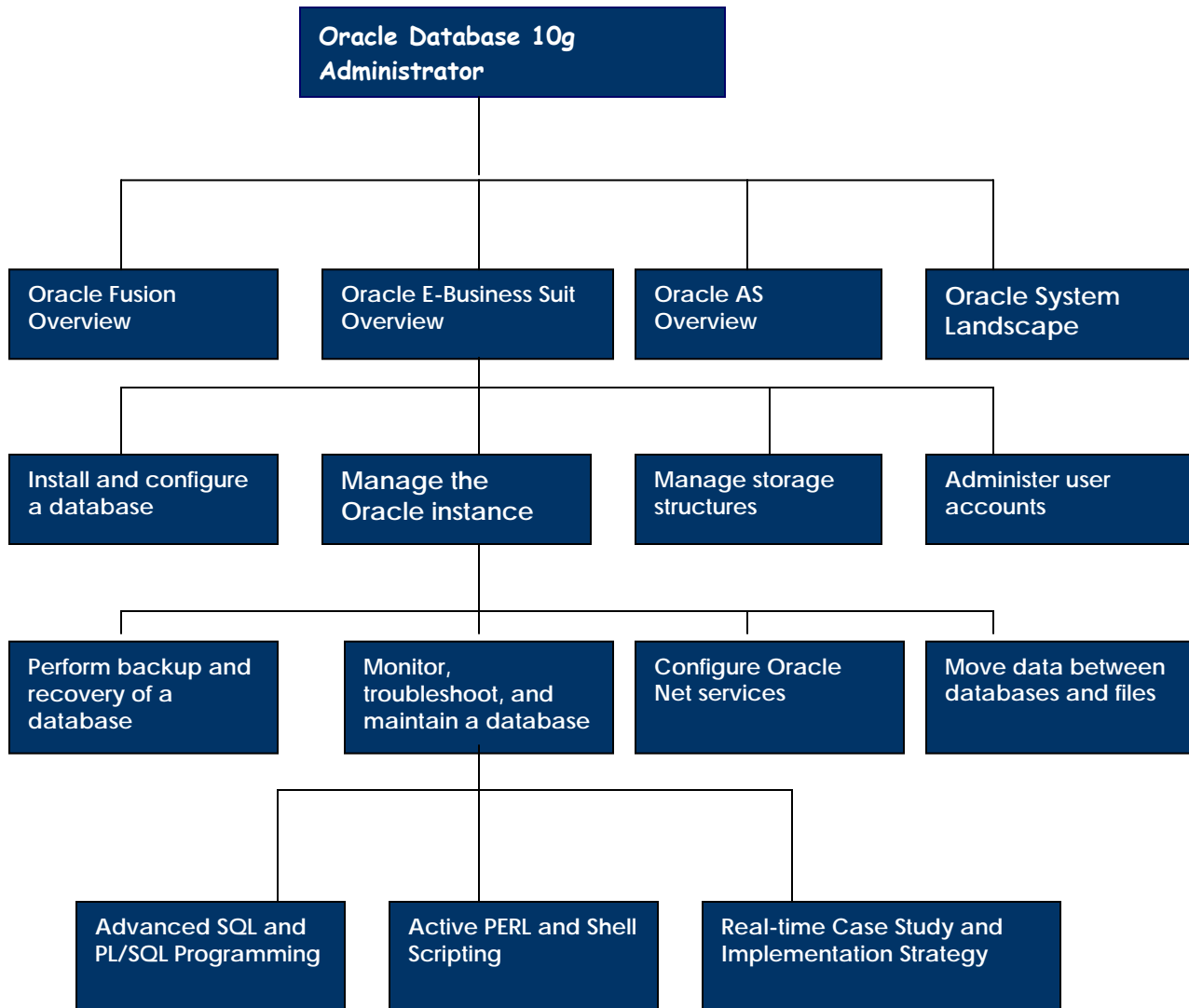
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We differentiate our training from others by delivering Role-Based Oracle instruction rather than Oracle Product focused Training

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THE Global Training Company for Cultivating IT Leadership

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Training Roadmap



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TRAINING GOALS AND OBJECTIVES

COURSE GOALS

- Install the Database
- Back up and Recover Data
- Administer Users
- Transport Data between Databases
- Manage Data
- Configure the Network

COURSE OBJECTIVES

- Introduction
- Install Oracle Database 10g and configure a database
- Manage the Oracle instance
- Manage the Database storage structures
- Create and administer user accounts
- Perform backup and recovery of a database
- Monitor, troubleshoot, and maintain a database
- Configure Oracle Net services
- Move data between databases and files
- Identify the Oracle product line
- Describe the basic concepts of a relational database
- Know core database administrator tasks
- Installing Oracle Database 10g Software
- Identify system requirements
- Use optimal flexible architecture
- Install software with the Oracle Universal Installer
- Create an Oracle Database
- Describe Oracle Database Architecture
- Understand the instance architecture
- Use the management framework
- Use the Database Creation Assistant
- Data - Managing
- Working with Databases

Students will gain a conceptual understanding of the Oracle database architecture and how its components work and interact with one another. Students will also learn how to create an operational database and properly manage the various structures in an effective and efficient manner including performance monitoring, database security, user management, and backup/recovery techniques. This course is designed to prepare you for the corresponding Oracle Certified Associate exam.

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Oracle Database 10g Administrator Certified Associate Preparation Training		
Session #	Session Topics	Session Details
1	Introduction	<ul style="list-style-type: none"> ▪ Explain the course objectives ▪ Identify the Oracle product line ▪ Describe the basic concepts of a relational database ▪ Know core database administrator tasks
QUIZ # 1		
2	Installing Oracle Database 10g Software	<ul style="list-style-type: none"> ▪ Identify system requirements ▪ Use optimal flexible architecture ▪ Install software with the Oracle Universal Installer
QUIZ # 2		
3	Create an Oracle Database	<ul style="list-style-type: none"> ▪ Describe Oracle Database Architecture ▪ Understand the instance architecture ▪ Use the management framework ▪ Use the Database Creation Assistant
QUIZ # 3		
4	Database interfaces	<ul style="list-style-type: none"> ▪ Use structured query language (SQL) ▪ Use Procedural Language/Structured Query Language (PL/SQL) ▪ Use Java ▪ Use the Oracle C++ Call Interface (OCCI)
QUIZ # 4		
5	Controlling the database	<ul style="list-style-type: none"> ▪ Start and stop the agent ▪ Start and stop the enterprise manager database console ▪ Start and stop the listener ▪ Startup and shutdown the database
QUIZ # 5		
6	Storage Structures	<ul style="list-style-type: none"> ▪ Define the purpose of tablespaces and data files ▪ Create tablespaces ▪ Manage tablespaces ▪ Obtain tablespace information ▪ Create and manage tablespaces using Oracle Managed Files (OMF)
QUIZ # 6		
7	Administering users	<ul style="list-style-type: none"> ▪ Create and manage database user accounts ▪ Create and manage roles ▪ Grant and revoke privileges

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		<ul style="list-style-type: none"> ▪ Control resource usage by users
QUIZ # 7		
8	Managing Schema Objects	<ul style="list-style-type: none"> ▪ Create and modify tables ▪ Define constraints ▪ View the attributes of a table ▪ View the contents of a table ▪ Create indexes and views
QUIZ # 8		
9	Managing Data	<ul style="list-style-type: none"> ▪ Manipulating data through SQL ▪ Using Import ▪ Using Export ▪ Using SQL Load
QUIZ # 9		
10	PL/SQL	<ul style="list-style-type: none"> ▪ Identify PL/SQL objects ▪ Understand triggers and triggering events ▪ Identify configuration options that affect PL/SQL performance
QUIZ # 10		
11	Oracle Database Security	<ul style="list-style-type: none"> ▪ Apply the principal of least privilege ▪ Manage default user accounts ▪ Implement standard password security features ▪ Audit database activity
QUIZ # 11		
12	Oracle Net Services	<ul style="list-style-type: none"> ▪ Understand Oracle Net concepts ▪ Use Oracle Net Manager to create and configure listeners ▪ Use the listener control utility to control the Oracle Net Listener ▪ Use the Oracle Net Manager to configure client and middle-tier connection ▪ Use TNSPING to test Oracle Net connectivity
QUIZ # 12		
13	Oracle Shared Server	<ul style="list-style-type: none"> ▪ Understand when to use Oracle Shared Servers ▪ Configure Oracle Shared Servers ▪ Monitoring Shared Servers
QUIZ # 13		
14	Performance Monitoring	<ul style="list-style-type: none"> ▪ Troubleshoot invalid and unusable objects ▪ Gather optimizer statistics ▪ View performance metrics ▪ React to performance issues

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QUIZ # 14		
15	Proactive Maintenance	<ul style="list-style-type: none"> ▪ Set warning and critical alert thresholds ▪ Collect and use baseline metrics ▪ Use tuning and diagnostic advisors ▪ Use the Automatic Database Diagnostic Monitor (ADDM) ▪ Manage the Automatic Workload Repository
QUIZ # 15		
16	Undo Management	<ul style="list-style-type: none"> ▪ Monitor and administer undo ▪ Configure undo retention ▪ Guarantee undo retention ▪ Use the undo advisor
QUIZ # 16		
17	Monitoring and Resolving Lock Conflicts	<ul style="list-style-type: none"> ▪ Detect and resolve lock conflicts ▪ Manage deadlocks
QUIZ # 17		
18	Backup and Recovery Concepts	<ul style="list-style-type: none"> ▪ Describe the basics of database backup, restore and recovery ▪ List the types of failure that may occur in an Oracle Database ▪ Describe ways to tune instance recovery ▪ Identify the importance of checkpoints, redo log files, and archived log file ▪ Configure ARCHIVELOG mode
QUIZ # 18		
19	Database backups	<ul style="list-style-type: none"> ▪ Create consistent database backups ▪ Back your database up without shutting it down ▪ Create incremental backups ▪ Automate database backups ▪ Monitor the flash recovery area
QUIZ # 19		
20	Database Recovery	<ul style="list-style-type: none"> ▪ Recover from loss of a control file ▪ Recover from loss of a redo log file ▪ Recover from loss of a data file
QUIZ # 20		
21	Case Study and Sample Project	<ul style="list-style-type: none"> ▪ Applicable ONLY for QUALIFIED Participants

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APPENDIX - A - Certification Information

Certification Details

Exam Number	: 1Z0-042
Exam Price	: \$125.00 USD
Duration	: 120 minutes
Number of Questions	: 90
Passing Score	: 68%

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Exam Topics

Architecture

- 1 Outline the Oracle Architecture and its main Components
- 2 Explain the Oracle instance architecture

Installing the Oracle Database Software

- 1 Identify common database administrative tools available to a DBA (1)
- 2 Use optimal flexible architecture
- 3 Install software with Oracle Universal Installer
- 4 Identify and configure commonly used environment variables
- 5 Use Installer Log (2)

Creating an Oracle Database

- 1 Use DBCA to Create a database
- 2 Use DBCA to Delete a database
- 3 Use DBCA to manage templates

Managing the Oracle Instance

- 1 Use Enterprise Manager
- 2 Use SQL*Plus and iSQL*Plus to access the Oracle Database
- 3 Modify database initialization parameters
- 4 Describe the stages of database startup
- 5 Describe the database shutdown options
- 6 View the database alert log
- 7 Use dynamic performance views (3)

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Managing Database Storage Structures

- 1 Describe how table row data is stored in blocks (4)
- 2 Define the purpose of tablespaces and data files
- 3 Explain space management in tablespaces
- 4 Create tablespaces
- 5 Manage tablespaces: alter, drop, take offline, put online, add data files, make read-only or read-write, generate DDL
- 6 Obtain tablespace information
- 7 Explain key features and benefits of ASM (5)

Administering User Security

- 1 Create and manage database user accounts
- 2 Create and manage roles
- 3 Grant and revoke privileges
- 4 Create and manage profiles (6)

Disclaimer:

CloneSkills is an independent training and Oracle solutions company, not affiliated to Oracle. At CloneSkills we exclusively promote the Oracle Fusion Solutions and do not compete with Oracle.

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