

CLONESKILLS, INC.

PREPARE TO LEAD.

LEAD WITH SKILLS.

Oracle Database 11i Application DBA Certification Preparation Training



Prepare to lead.
Lead with skills.

CLONESKILLS

The Global Training Company for Cultivating IT Leadership

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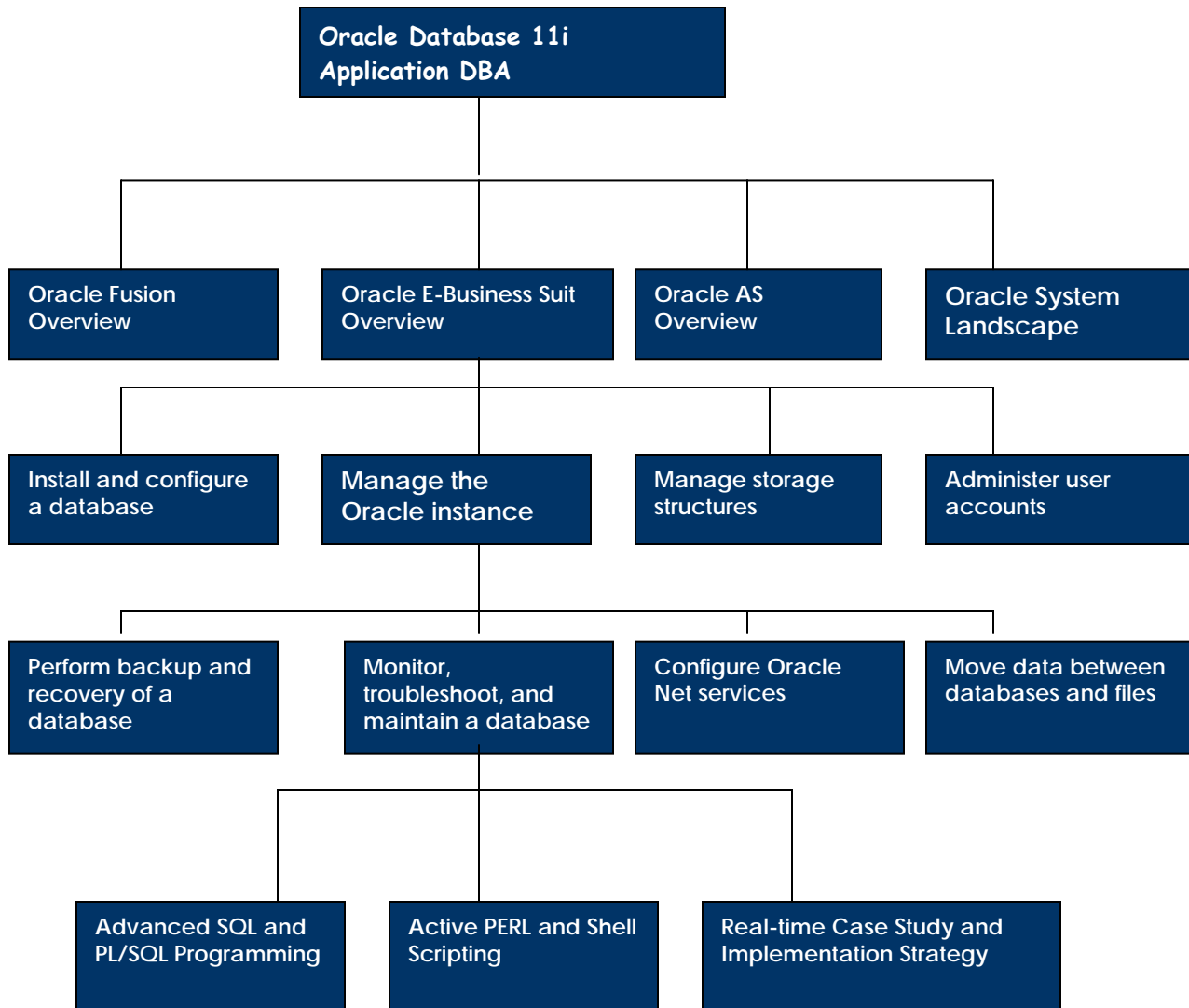
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We differentiate our training from others by delivering Role-Based Oracle instruction rather than Oracle Product focused Training.

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THE Global Training Company for Cultivating IT Leadership

Training Roadmap



Oracle Database 11i Application DBA Certification Preparation Training

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 11i Applications DBA Certified Associate Preparation Training		
Session #	Session Topics	Session Details
1	Oracle Architectural Components	<ul style="list-style-type: none"> ▪ Describe the Oracle architecture and its main components ▪ List (describe) the structures involved in connecting a user to an Oracle instance ▪ Getting Started With the Oracle Server
QUIZ # 1		
2	Getting Started With the Oracle Server	<ul style="list-style-type: none"> ▪ Identify common database administrative tools available to a DBA
QUIZ # 2		
3	Managing an Oracle Instance	<ul style="list-style-type: none"> ▪ Create and manage initialization parameter files ▪ Start up and shut down an instance ▪ Monitor the use of diagnostic files ▪
QUIZ # 3		
4	Managing an Oracle Instance	<ul style="list-style-type: none"> ▪ Create and manage initialization parameter files ▪ Start up and shut down an instance ▪ Monitor the use of diagnostic files
QUIZ # 4		
5	Creating a Database	<ul style="list-style-type: none"> ▪ Describe the prerequisites necessary for database creation ▪ Create a database manually
QUIZ # 5		
6	Maintaining the Control File	<ul style="list-style-type: none"> ▪ Explain the uses of the control file ▪ Multiplex and manage the control file ▪ Obtain control file information
QUIZ # 6		
7	Data Dictionary Content and Usage	<ul style="list-style-type: none"> ▪ Identify key data dictionary components ▪ Identify the contents and uses of the data dictionary ▪ Query the data dictionary

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QUIZ # 7		
8	Maintaining the Control File	<ul style="list-style-type: none"> ▪ Explain the uses of the control file ▪ Multitplex and manage the control file ▪ Obtain control file information
QUIZ # 8		
9	Maintaining Redo Log Files	<ul style="list-style-type: none"> ▪ Explain the purpose of online redo log files ▪ Describe the structure of online redo log files ▪ Control log switches and checkpoints ▪ Multitplex and maintain online redo log files
QUIZ # 9		
10	Managing Tablespaces and Data files	<ul style="list-style-type: none"> ▪ Describe the logical structure of tablespaces within the database ▪ Create tablespaces ▪ Allocate space for temporary segments ▪ Change the status of tablespaces ▪ Change the storage settings of tablespaces
QUIZ # 10		
11	Storage Structure and Relationships	<ul style="list-style-type: none"> ▪ List the segment types and their uses ▪ List the keywords that control block space usage ▪ Obtain information about storage structures from the data dictionary ▪
QUIZ # 11		
12	Managing Undo Data	<ul style="list-style-type: none"> ▪ Describe the purpose of undo data ▪ Implement Automatic Undo Management
QUIZ # 12		
13	Managing Tables	<ul style="list-style-type: none"> ▪ Identify the various methods of storing data ▪ Create regular and temporary tables ▪ Reorganize, truncate, drop a table ▪ Drop a column within a table
QUIZ # 13		
14	Managing Indexes	<ul style="list-style-type: none"> ▪ List the different types of indexes and their uses ▪ Reorganize indexes ▪ Monitor the usage of an index
QUIZ # 14		

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15	Maintaining Data Integrity	<ul style="list-style-type: none"> ▪ Describe the Types of Data Integrity Constraints
QUIZ # 15		
16	Managing Users	<ul style="list-style-type: none"> ▪ Create new database users ▪ Alter and drop existing database users ▪ Monitor information about existing users ▪
QUIZ # 16		
17	Managing Privileges	<ul style="list-style-type: none"> ▪ Identify system and object privileges ▪ Grant and revoke privileges ▪ Using Globalization Support ▪ Choose database character set and national character set for a database ▪ Specify the language-dependent behavior using initialization parameters, environment variables and the ALTER SESSION command
QUIZ # 17		
18	Basic Oracle Net Architecture	<ul style="list-style-type: none"> ▪ Explain the key components of the Oracle Net layered architecture ▪ Explain Oracle Net Services role in client server connections ▪ Describe how web client connections are established through Oracle networking products
QUIZ # 18		
19	Basic Net Server-Side Configuration	<ul style="list-style-type: none"> ▪ Identify how the listener responds to incoming connections ▪ Configure the listener using Oracle Net Manager ▪ Control the listener using the Listener Control Utility (lsnrctl) ▪ Describe Dynamic Service Registration
QUIZ # 19		
20	Basic Oracle Net Services Client-Side Configuration	<ul style="list-style-type: none"> ▪ Describe the difference between host naming and local service name resolution ▪ Use Oracle Net Configuration Assistant to configure: Host Naming, Local naming method, Net service names

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		<ul style="list-style-type: none">▪ Perform simple connection troubleshooting
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	: 1Z0-235
Associated Certifications	: Oracle 11i Applications DBA
Exam Price	: \$195 USD
Duration	: 120 minutes
Number of Questions	: 68
Passing Score	: 70%

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EXAM TOPICS

Oracle Architectural Components

Describe the Oracle architecture and its main components

List (describe) the structures involved in connecting a user to an Oracle instance

Getting Started With the Oracle Server

Identify common database administrative tools available to a DBA

Managing an Oracle Instance

Create and manage initialization parameter files

Start up and shut down an instance

Monitor the use of diagnostic files

Creating a Database

Describe the prerequisites necessary for database creation

Create a database manually

Data Dictionary Content and Usage

Identify key data dictionary components

Identify the contents and uses of the data dictionary

Query the data dictionary

Maintaining the Control File

Explain the uses of the control file

Multiplex and manage the control file

Obtain control file information

Maintaining Redo Log Files

Explain the purpose of online redo log files

Describe the structure of online redo log files

Control log switches and checkpoints

Multiplex and maintain online redo log files

Managing Tablespaces and Data files

Describe the logical structure of tablespaces within the database

Create tablespaces

Allocate space for temporary segments

Change the status of tablespaces

Change the storage settings of tablespaces

Storage Structure and Relationships

List the segment types and their uses

List the keywords that control block space usage

Obtain information about storage structures from the data dictionary

Managing Undo Data

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Describe the purpose of undo data
Implement Automatic Undo Management

Managing Tables

Identify the various methods of storing data
Create regular and temporary tables
Reorganize, truncate, drop a table
Drop a column within a table

Managing Indexes

List the different types of indexes and their uses
Reorganize indexes
Monitor the usage of an index

Maintaining Data Integrity

Describe the Types of Data Integrity Constraints

Managing Users

Create new database users
Alter and drop existing database users
Monitor information about existing users

Managing Privileges

Identify system and object privileges
Grant and revoke privileges

Using Globalization Support

Choose database character set and national character set for a database
Specify the language-dependent behavior using initialization parameters, environment variables and the ALTER SESSION command

Basic Oracle Net Architecture

Explain the key components of the Oracle Net layered architecture
Explain Oracle Net Services role in client server connections
Describe how web client connections are established through Oracle networking products

Basic Net Server-Side Configuration

Identify how the listener responds to incoming connections
Configure the listener using Oracle Net Manager
Control the listener using the Listener Control Utility (lsnrctl)
Describe Dynamic Service Registration

Basic Oracle Net Services Client-Side Configuration

Describe the difference between host naming and local service name resolution
Use Oracle Net Configuration Assistant to configure: Host Naming, Local naming method, Net service names
Perform simple connection troubleshooting

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