Oracle[®] Certification Program Candidate Guide

Oracle Database 10g™ Administrator Certified Associate
Oracle Database 10g™ Administrator Certified Professional
Oracle Database 10g™ Administrator Certified Master

May 2006







Contents

Oracle Candidate Certification Guide

Oracle Database 10g[™] Administrator Certified Associate
Oracle Database 10g[™] Administrator Certified Professional
Oracle Database 10g[™] Administrator Certified Master
May 2006



The Benefits of Oracle Certification



Oracle Database 10g Administrator Certified Associate
Oracle Database 10g Administrator Certified Professional
Oracle Database 10g Administrator Certified Master Paths

Preparing for the Oracle Database 10g Tests

Registering for Your Tests

5 Taking Your Tests

6 After You Are Certified

Special Testing Opportunities



Test Content Checklists

Visit the Oracle Certification Program website at http://www.oracle.com/education/certification/

The Benefits of Oracle Certification

1

The demand for Oracle technical professionals is growing at an incredible pace. But individuals, experienced or new to the profession, need to know what skills make them attractive to employers. Employers look for ways to distinguish employees and prospective employees who have the solid foundation of skills needed for effective performance.

The Oracle Certification Programs help the IT industry make these distinctions by establishing a standard of competence in key entry level and professional job roles.

An Oracle certification is a valuable, industry-recognized credential that signifies a proven level of knowledge and ability. Each higher level of Oracle certification brings a higher standard of benchmarked skill and ability, which leads to greater opportunities and higher remuneration.

"Technical certifications have evolved from a hiring tool to a screening tool: If you don't have them, you aren't viewed as a serious candidate."

Benefits to the Technical Professional

An *Oracle Certified Associate (OCA)* credential demonstrates that you have a solid understanding of the foundation skills of a given job role that can be applied at an apprentice or entry level.

By earning your OCA designation you improve your chances of getting entry-level job opportunities. The OCA is the stepping stone to starting a successful career as an Oracle Professional.

After OCA, by becoming an *Oracle Certified Professional (OCP)* you demonstrate your understanding of the full range of skills required by Oracle professionals in your chosen job role. The OCP is in high demand in today's marketplace, and the demand for new OCPs grows with each new release of an Oracle product. An Oracle certification helps raise your visibility and increases your access to the industry's most challenging and rewarding opportunities.

"Oracle's certification strength in a declining economy is due in part to the fact that more complex, high-level certifications appear to be less vulnerable"

The *Oracle Certified Master* (OCM) is the highest credential an Oracle professional can earn in the Oracle Certification Program. An Oracle DBA Certified Master is a top-level Oracle expert who has in-depth knowledge of the Oracle database technology and industry experience managing mission-critical Oracle database systems and applications. An OCM is considered an expert within an organization, among peers, and across the industry.

The true value of earning an Oracle certification credential is increased opportunity. With more opportunities come career growth, greater stability, and higher remuneration.

"Given the key importance of data as an organizational asset, it should come as no surprise that DBAs remain in high demand and that related training certification programs are popular even in this time of economic trouble... By the numbers, Oracle leads the DBMS/DBA certification area."

Benefits to the IT Employer

The Oracle Certification Programs are also valuable to hiring managers who want to hire right candidates for critical IT positions. For companies that send employees through annual IT training, certification helps ensure a return on the training investment by validating the knowledge and understanding gained in training sessions. Companies can also combine certification with an employee development program to enhance employee loyalty and performance on the job. Hiring certified professionals can have a direct impact on a company's success.

- 1 Source: Information Week, Employers Raise the Bar on Certification, 2002
- 2 Source: IDC Certification Report and Forecast 2002 2006 3 Source: CertMag, Certified Expert: Working as a Database Administrator, January 2003

Oracle Database 10g Administrator Certified Associate Oracle Database 10g Administrator Certified Professional Oracle Database 10g Administrator Certified Master Paths

Oracle Database 10*g* Certification: Overview

The expertise of Oracle database administrators (DBAs) is integral to the success of today's increasingly complex system environments. Their critical work requires a broad understanding of the architecture and processes of the Oracle database, as well as plenty of hands-on experience in solving problems. The best DBAs know they stand between optimal performance and an event that could bring their company to a standstill.

"Currently, Oracle skills remain the most sought-after database skills in the IT marketplace."

Oracle Database 10*g* Administrator Certified Associate (OCA)

The Oracle Database 10g Administrator Certified Associate (OCA) credential is the first step toward success as an Oracle database professional. It is designed to provide a foundation in the administration of Oracle Database 10g. This entry-level qualification requires completion of only one exam. The OCA credential is a building block (and a prerequisite) in the process to receive the Oracle Certified Professional (OCP) and Oracle Certified Master (OCM) credentials.

Oracle Database 10*g* Administrator Certified Professional (OCP)

The second and most recognized tier of the Oracle Certification Program is the Oracle Database 10g Administrator Certified Professional. The Oracle Certified Professional credential is an advanced qualification for Oracle Certified Associates

and requires candidates to first earn the 10g OCA credential and then to pass only one additional exam and to have met the handson course requirement. Oracle Database 10g OCPs have the skills to set up and manage critical Oracle Database 10g functions and to keep the database running at maximum efficiency. In order to gain hands-on and classroom experience, all OCP candidates are required to complete one Oracle University hands-on course from Oracle University or one of its authorized partners. This training is the best preparation for the OCP exam and will add both book and practical learning to all those who become certified. The OCP credential will provide the candidates with the recognition that will lead to increased opportunity and more rewarding careers.

View the chart on Page 5 for a list of the required tests and the course requirements to earn the Oracle Database 10g OCP credential.

Oracle Database 10*g* Certified Master (OCM)

The Oracle Database 10g OCM credential is for the Oracle database guru—the senior database professional with both classroom and on-the-job experience. The prerequisites are that the candidates earn an Oracle Database 10g OCP credential and complete the advanced-level coursework. The final stage requires that the candidates prove their skills through an intensive, two-day, hands-on practical examination.

Currently, the Oracle Database 10g OCM practicum and the credential requirement are under development. Further details will be available in late 2005

Upgrading Your Current OCP DBA Credential to Oracle Database 10*g*

Oracle9*i* to Oracle Database 10*g* Upgrade Path (1 test):

Candidates certified as Oracle9*i* DBA OCP may pass the exam "1Z0-040 Oracle Database 10*g* New Features for Administrators" to upgrade their certification to Oracle Database 10*g*.

Oracle8*i* to Oracle Database 10*g* Upgrade Path (1 test):

Candidates certified as Oracle8*i* DBA OCP may pass exam 1Z0-045 Oracle Database 10*g* New Features for Oracle8*i* OCPs to upgrade their certification to Oracle Database 10*g*.

Candidate Qualifications

Most candidates for DBA certification combine up-to-date training with some level of on-the-job experience. There is no "typical" candidate. Many of the questions on the OCP exams are based on real-job scenarios. In addition to the appropriate training, you will need hands-on experience with the software. Trial software versions and hands-on labs are included in most Oracle University training products.

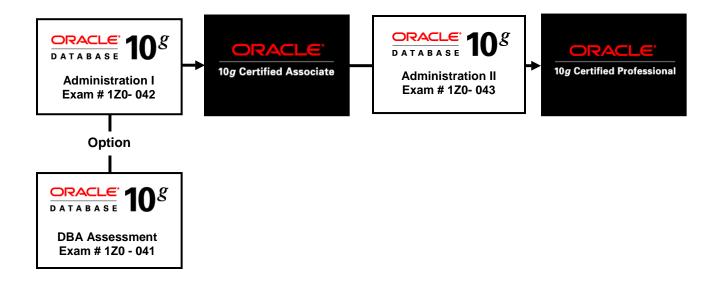
1 Source: IDC Certification Report 2002

Required Exams and Selected Hands-On Courses for the Oracle Database 10g Certification Paths

Oracle customers and business partners demand hands-on experience on all aspects of Oracle's database from their Oracle Certified Professionals.

Exams Required

Oracle Database 10g Administrator Certified Associate Oracle Database 10g Administrator Certified Professional



Oracle Database 10g Hands-On Course Requirement

To earn the Oracle Database 10g Certified Professional credential, all new DBA OCP candidates are required to pass the exams listed on page 5 and attend one instructor-led in Class or instructor-led online course from the list below. Oracle University's rigorous certification training and lab-based focus will ensure that all Oracle Certified Professionals obtain real hands-on experience using the Oracle Database 10g technology and tools.

- Oracle Database 10g: Administration Workshop I
- Oracle Database 10g: Administration Workshop II
- Oracle Database 10*g*: Introduction to SQL
- Oracle Database 10g: New Features for Administrators
- Oracle Database 10g: Program with PL/SQL

- Oracle Database 10g: Real Application Clusters
- Migrate from SQL Server to Oracle Database 10g
- Oracle Database 10*g*: Implement Streams
- Oracle Enterprise Manager 10g Grid Control
- Oracle Database 10*g*: SQL Tuning Workshop
- Oracle Database 10g: New Features for Oracle8i DBAs

Accepted Hands-On Requirement Training Facilities

Candidates must attend their approved course through one of these providers:

- Oracle University Training Center
- Oracle Authorized Education Center
- Oracle Authorized Education Partner
- Oracle Academic Initiative
- Oracle Internet Academy
- Oracle Workforce Development <u>Program</u>

Requirement Exemptions

All new Oracle Database 10g Certified Professional candidates will not receive their certification until they have completed the exam requirements, met the hands-on course requirement and submitted the Hands-on Course Requirement Form.

DBA Certified Professionals who have earned their DBA OCP credential on a previous release (Oracle7.3, Oracle8, Oracle8*i*, and Oracle9*i*) are not required to meet the hands-on course requirement and should not submit the Hands-on Course Requirement Form.

OCP Hands-On Course Requirement Form

All Oracle9*i* and Oracle Database 10*g* DBA OCP candidates who are required to meet the hands-on course requirement will be required to submit the new Hands-On Course Requirement Form.

Submitting the Hands-on Course Requirement form will accomplish two tasks related to your certification:

- 1. It will trigger a request for Oracle to verify your attendance of an approved hands-on course.
- 2. After your attendance has been verified by Oracle, the form will generate a permanent record in Oracle and Prometric's certification databases, showing that you have met the requirement. The record will become part of your personal certification history, identifiable as "OCP Hands-On Course Requirement".

To eliminate any delays with your OCP DBA certificate, submit your form as soon as you have attended one of the approved courses to meet the DBA OCP hands-on requirement.

If you are not sure whether you are required to meet the hands-on course requirement, view the requirements for the certification path you are pursuing.

How to Submit the Oracle University Hands-on Course Requirement Form

Oracle OCP candidates will not receive their certificates until their OCP Handson Course Requirement Form has been verified. Select the OCP Track you are pursuing to view instructions on submitting your Hands-on Requirement Form

- 1. Oracle9*i* Database Administrator Certified Professional
- 2. Oracle Database 10g Administrator Certified Professional

Who Should Complete the Oracle University Hands-On Requirement Form?

- 1. ALL candidates in the Oracle9*i* or Oracle Database 10*g* DBA OCP track who have attended their approved hands-on course.
- 2. Oracle Academic Initiative students
- 3. Oracle Internet Academy students
- 4. Oracle Workforce Development
 Program students

Who Should NOT Complete the OCP Hands-On Requirement Form

- Candidates who are upgrading their existing OCP DBA credential from a previous version.
- **2.** Candidates who are required to attend a hands-on course but who have not yet attended it.

How to Submit the Oracle OCP Hands-On Course Requirement Form:

- ☐ Submit the form only AFTER you have attended your approved hands-on course.
- ☐ Before you start, locate the following:
 - ⇒ Your Prometric Testing ID (found on all Oracle exam score reports).
 - Your registration confirmation
 e-mail from Oracle University for
 your hands-on course. If you do
 not have your course confirmation
 e-mail, you will need your handson course information: Course
 Title, Course Date, Course
 Location, and Course Facility
 Name (the name of the company
 or institute you took your hands-on
 course from).
- ⇒ Go to http://oracle.prometric.com
 and either sign in (if you already have an account) or select **First Time Registration** to create a new account. You will need to provide your Prometric Testing ID and your correct mailing and e-mail addresses during the setting up of your new account.
- ⇒ Select Take Test from the menu and enter the keycode
 "10gcourse" in the Private Tests box.
- ⇒ Complete the requirement form. NOTE that there are two steps to this form; please make sure to complete both steps by following all instructions on your screen.

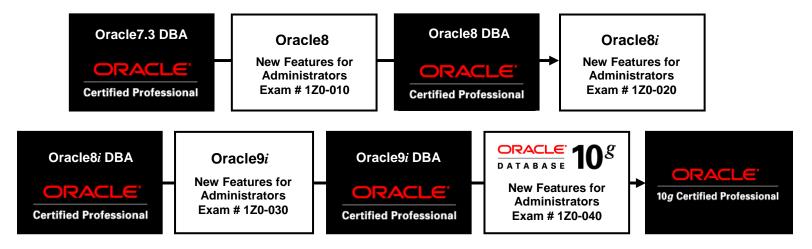
If you have any questions regarding the Oracle OCP Hands-On Course Requirement or about how to enter your information, please contact Oracle at ocpreq.www.oracle.com.

OCP DBA Upgrade Certification Paths

Follow the paths shown below to upgrade your current Oracle DBA OCP credential to Oracle Database 10g.

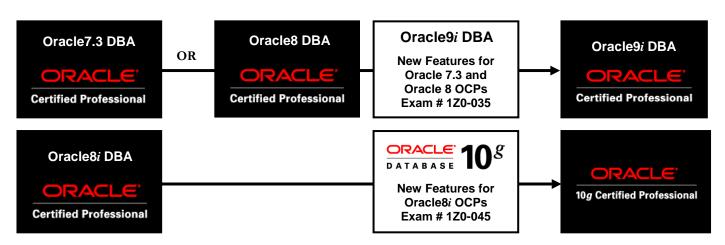
Single Release Upgrade Path

Generally, one exam is required for OCPs to upgrade to each new release of an Oracle DBA track. For example, one exam upgrades the Oracle7.3 credential to Oracle8, one exam from Oracle8 to Oracle8i, one exam from Oracle9i, and one exam from Oracle9i to Oracle 10g.



Bridged Release Upgrade Exams

OCPs with older credentials may skip intervening releases and upgrade to a current technology with a single exam. For example, one exam upgrades Oracle7.3 and Oracle8 DBAs directly to Oracle9*i*, and another exam upgrades Oracle8*i* DBAs directly to Oracle Database 10*g*.



Oracle Database 10g Certified Master Certification Path Follow the path in the diagram below to earn your Oracle DBA 10g Certified Master credential.



Oracle Database 10*g* Administrator Certified Master Requirements

To earn your Oracle Database 10g Administrator Certified Master credential, candidates are required to meet the requirements stated below.

Oracle DBA 10g Certified Master (OCM)

The Oracle Database 10g OCM credential is for the most advanced Oracle database administrator. This individual has comprehensive and extensive experience on a wide variety of topics including installation, troubleshooting, backup and recovery and tuning. The prerequisites require that candidates earn an Oracle Database 10g OCP credential and complete advanced-level coursework. The final stage requires that candidates demonstrate their skills through an intensive two-day hands-on practical examination.

Oracle Database 10g OCM Practicum

To earn the Oracle Database 10g Administrator Certified Master credential candidates must pass the practicum exam.

The Oracle DBA 10g Oracle Certified Master practicum is a two day live application event where participants are required to complete a series of scenarios and resolve technical problems that will test their expertise in an Oracle Database 10g environment. Participants will be scored on their ability to successfully complete assigned tasks.

The practicum will be conducted at an Oracle University facility in each global region. Contact your local Oracle

University representative to find the Practicum location nearest you. Visit http://www.oracle.com/education/contact_info.html to view your local Oracle University contact information.

Practicum Registration Prerequisites

Prior to registering for the Oracle Certified Master exam, a candidate must complete three requirements:

- Earn the Oracle Database 10g Administrator Certified Professional (OCP) credential.
- Attend two advanced DBA courses from Oracle University. Advanced courses are taught by top Oracle University instructors and offer hands-on experience for topics that may be addressed during the exam. Few advanced courses are offered in an online format, however if available, the equivalent instructor-led Live Web Class is acceptable.
- Submit your OCM Advanced Course Attendance Form to enable the verification of your course attendance.

Below is a listing of the Oracle University courses that meet the advanced course requirement.

Oracle Database 10g OCM Practicum Course Prerequisite

The OCM Practicum, candidates must attend two of the following courses listed below.

- Oracle Database 10g: Program with PL/SQL
- Oracle Database 10g: Program with PL/SQL LWC
- Oracle Enterprise Manager 10g Grid Control
- Oracle Database 10g: SQL Tuning Workshop
- Oracle Database 10g: Real Application Clusters
- Oracle Database 10g: Data Guard Administration
- Oracle Database 10*g*: Implement Streams
- Oracle Database 10g: Advanced PL/SQL
- Oracle Database 10g: Security
- Migrate from SQL Server to Oracle Database 10g
- Migrate from Sybase to Oracle Database 10g
- Oracle Spatial 10g: Advanced
- Oracle Spatial 10g: Fundamentals

- Oracle9i: Program with PL/SQL
- Oracle9i: Advanced PL/SQL
- Oracle9i: Implement Advanced Queing
- Oracle9i: SQL Tuning Workshop
- Oracle9*i* Database: Advanced Instance Tuning
- Oracle Net Services: Advanced Administration
- Oracle9i Database: Advanced Replication
- Oracle Enterprise Manager 9i
- Managing Oracle on Linux
- Oracle9*i* Database: Implementing Oracle Streams
- Oracle9i Database: Security
- Oracle 9i: Data Guard Administration
- Oracle9i: Real Application Clusters
- Oracle9i Database: Advanced Backup and Recovery using RMAN
- Oracle9i: Data Warehouse Administration
- Oracle9i Database: Implement Partitioning

Oracle DBA 10g Certified Master Practicum

An OCM candidate must successfully pass the Oracle DBA 10g Certified Master practicum after having completed the required OU advanced learning requirements listed on the previous page.

Minimum Participant Skills

The Oracle 10g Certified Master credential is for Oracle 10g DBA OCPs with advanced training and at least 3 - 4 years of professional enterprise-level Oracle experience. Successful OCM candidates are those individuals who have up-to-date training and in-depth experience with each of the exam objectives and have extensively practiced backup, restore, and recovery operations.

Recommended minimum skills include:

- 1. Proficient with Oracle10g SQL
- 2. Working knowledge of LINUX command language that includes:
 - a. Formatting and executing basic OS commands
 - b. Creating and navigating through directory structures
 - c. File management using copy, move, and delete
 - d. Linux environment text editors
 - e. Setting environment variables
- **3.** The ability to locate and launch Oracle executables that include:
 - a. RMAN utility
 - b. Oracle Net Manager
 - c. Oracle Net Configuration Assistant
 - d. OEM
 - e. Listener Utility
 - f.OMS
 - g. Oracle Password Utility
 - h. Database Creation Assistant

- 4. Proficient with using Oracle Enterprise Manager
- 5. Proficient in using Oracle Net
 Manager and the Oracle Net
 Configuration Assistant to configure
 networking
- **6.** Advanced knowledge and use of Oracle10.1.0.4 Enterprise Server technology and features
- 7. Familiarity with navigating through online Oracle documentation
- **8.** Proficient with using Mozilla 1.6 browser software

Information About the Exam

Software Environment

Red Hat Enterprise Linux AS 3 operating system, Oracle Database 10g 10.1.0.4, and Oracle Enterprise Manager 10g Grid Control 10.1.0.3 are used during exam.

Participants can choose to work with in either Linux and Oracle CLI or GUI environment when available during exam.

Candidates will also have access to a complete, non-searchable Oracle documentation set.

Exam Administration

Requirements

Participants taking the Oracle 10g DBA OCM exam are subject to the rules and guidelines specified in the Oracle Certification Program Candidate

Agreement. Please read this agreement before attending your OCM event.

All participants must display valid photo identification in order to be admitted to the exam. Exam participants are also required to know their Prometric Testing ID at the time of sign-in on the first day of the event. Participants may contact Prometric for help with this.

Exam Delivery

Exam participants work through eight scenarios that are based on the Oracle9*i* Certified Master Exam objectives.

The exam is conducted in a dedicated Oracle University classroom environment and administered to ensure fairness and security. An Oracle proctor facilitates the event by delivering scenarios and adhering to specific scenario time frames. The proctor does not score the exam and does not have access to scoring information.

Participants are randomly assigned a dedicated server that is their workstation for each day of the event. Servers are isolated from the Internet and Intranet in an effort to maintain security. It is the responsibility of the participant to effectively manage the database and instance environment on their server to

ensure performance and be able to recover from failure scenarios. The inability to recover from a failure scenario may impact a participant's completion of subsequent scenarios.

All scenarios have time limitations that require participants to employ best practices in order to successfully complete assigned tasks. Each scenario explicitly describes the required end state that participants must achieve.

Scoring

Participants are scored on their ability to complete assigned tasks and to recover from various database failure scenarios. Data from each participant's environment is collected at the end of each scenario and this data is used to determine the final score. In some scenarios, participants may receive partial credit, however the inability to recover from a failure scenario results in zero credit for an entire scenario. The proctor is not responsible for scoring the exam and will not have scoring information during the event.

Participants will be notified of their final score 4 - 5 weeks following the exam. Upon attaining a successful score, a participant is awarded the Oracle9*i* DBA OCM credential. If a participant does not achieve a passing score then they are required to retake the entire exam at a later date.

Practicum Objectives and Areas of Focus

Review the Oracle Database 10g Administrator Certified Master Practicum objectives to gain insight into what to expect before completing the practicum. The objectives are located within the Test Content Checklist in the back of this guide.

Oracle Certified Master Course Attendance Form

Submitting the OCM Course Attendance Form will accomplish two tasks related to your OCM requirements:

- ☐ It will trigger a request for Oracle to verify that you have met the OCM prerequisites.
- ☐ After your prerequisites have been verified by Oracle, the form will generate a permanent record in Oracle and Prometric's certification databases, showing that you have met the OCM prerequisites. The record will become part of your personal certification history, identifiable as "OCM Advanced Course Attendance".

How to Submit the OCM Course Attendance Form:

- Submit the form only AFTER you have attended your two DBA Advanced courses.
- 2. Before you start, locate the following:
 - ⇒ Your Prometric Testing ID (found on all Oracle exam score reports).
 - ⇒ Your registration confirmation email from Oracle University for your two advanced courses. If you don't have your course confirmation emails, you will need your course information: Course Titles, Course Dates and Course Locations and Course Facility Names (the name of the company or institute you took your advanced course from).

- Go to http://oracle.prometric.com/
 and either sign in (if you already
 have an account) or select First
 Time Registration to create a
 new account. You will need to
 provide your Prometric Testing ID
 and your correct mailing and email
 addresses during the setup of your
 new account.
- ⇒ Select Take Test from the menu and enter the keycode 'ocmcourses' in the Private Tests box.
- ⇒ Complete the requirement form.

If you have any questions regarding the OCM Course Attendance Prerequisite or about how to enter your information, please contact Oracle at ocpreq_ww@oracle.com.

Oracle Database 10g DBA Certified Master Upgrade for Oracle9i DBA OCMs

Oracle9*i* Database Administrator Certified Masters may upgrade their OCM credential to 10*g* by passing a one day practical exam. The Oracle Database 10*g* OCM Upgrade practical exam is currently in development. The below information regarding the 10*g* OCM upgrade is currently available. Additional information and release dates of the OCM Upgrade practical exam will be available soon.

- There will be no related course attendance prerequisite to attend the OCM upgrade exam.
- Only Oracle9i DBA OCM's may attend/complete the 10g DBA OCP Upgrade.
- The one day OCM Upgrade exam will be available through certain Oracle University Education Centers.
- OCM Upgrade exam content has not been finalized and is not yet available.
 More information will be provided on this page as it becomes available.

If you have additional questions, contact the Oracle Certification Program at ocpexam_ww@oracle.com.

Preparing for the Oracle Database 10g Tests

3

Oracle recommends that you prepare for the Oracle Database 10g exams by combining learning and prep offerings from Oracle University with your own practice and experience. Start by reviewing the topics covered on the exam in the Test Content Checklist in this guide. Then look over the following preparation methods for a combination that suits your background.

Learn Oracle from Oracle

There are a variety of options that allow complete flexibility to meet the needs of your schedule and budget. From intense in-class experiences with lots of hands-on labs to interactive online learning, Oracle University offerings are the best way to prepare to become an Oracle Certified Associate or Oracle Certified Professional. These courses lay the foundation of knowledge you will need to pass the Oracle Certification exams and provide a venue for hands-on practice.

Your local Oracle University representative can advise you on the best option. For more information, visit the Oracle University Web site at http://www.oracle.com/education/.

Preparing with Oracle University

Instructor-Led inClass Training

Build the in-depth knowledge and handson experience that you need to succeed in your job role with our most popular and comprehensive training option. From inclass demonstrations led by expert Oracle University instructors, to realistic handson labs, Instructor-Led inClass courses provide you a dynamic learning environment.

Instructor-Led Online

Receive live instruction at your home or office and save time and travel expenses with Instructor-Led Online training. Expert Oracle instructors deliver the same quality training as in our classrooms, during 4 hours of daily online instruction.

Self-Paced Online

Learn at your own pace with a 90-day subscription to Oracle University courses delivered over the Internet. Leverage a variety of content such as pre-recorded instructor videos, demonstrations, product simulations and quizzes. Interact with expert Oracle instructors, who will assist you through the course material via online office hours

Self-Paced CD-ROM

Study at your own pace with highly interactive Oracle University courses on CD-ROM. Reinforce your learning using the latest in multimedia instruction including video, animation, demonstrations, assessments and handson practices. Self-Paced CD-ROM courses offer a convenient, comprehensive, ongoing resource for you or your organization.

Additional Preparation Tools

Practice Tests

Oracle and Self Test Software have partnered to develop the highest quality practice tests available to individuals seeking Oracle Certified Associate and Oracle Certified Professional status. To purchase practice tests, visit the OCP Web site at

http://www.oracle.com/global/us/education/certification/sts.html.

Test Content Checklist

Use the Test Content Checklist in this guide to identify all the test topics for which you must prepare. Oracle may make modifications to the Test Content Checklist. Visit the OCP Website, to view the Exam Details List to download the latest version of this guide or print out the exam objectives from the website before attending your exam appointments.

Registering for Your Tests



Oracle Certification Program exams are offered at Oracle University Testing Centers and through Prometric, the world's largest provider of testing to the information technology industry.

Many Oracle University locations now offer exams, and can serve as a convenient alternative for both preparation and exam writing at one facility. Follow the registration directions shown below for scheduling exams at Oracle University or an Authorized Prometric Testing Center (APTC).

All exams are computerized. A brief tutorial precedes each test to familiarize you with the test delivery system. You should attempt to answer every question on the exam because incomplete answers are scored as incorrect. A summary screen allows for navigation throughout the exam, with functions for proceeding forward and back among questions.

Reviewing the Candidate Agreement

Candidates pursuing Oracle certification must accept the terms of the Oracle Certified Associate - Professional Candidate Agreement before taking the tests. You will be presented with the agreement on screen before the test starts. You can also review the agreement before your appointment by visiting the Oracle Certification Program Web site at http://www.oracle.com/global/us/education/certification/canagreemt.html

Scheduling Your Exam

Prepare and Test at Oracle University

Oracle University locations in many countries offer both exam preparations and the exams themselves from one convenient location. Visit the OCP Website's Exam Registration page to schedule an exam at an Oracle University location.

Make sure that you have both the number and title of the exam for which you are registering.

Regular exam fees are equivalent to \$125 US Dollars, plus any local taxes. The exam fee is payable to Oracle University. All discounts must be applied at the time of paying your exam fee.

Valid identification will be required when you attend your test appointment. To cancel or reschedule your test appointment, you must contact Oracle University. OU registration and cancellation policies apply to exam registrations.

Test with Prometric

APTC Online Registration

Register online at http://prometric.com/

- 1. APTC Telephone Registration-Call the Prometric Regional Service Center (RSC) serving your country during normal business hours (a list of RSCs is located on the last page of this guide).
- 2. Make sure that you have both the number and title of the exam that you are registering for. Schedule your exam appointment Monday through Saturday during normal authorized Prometric testing center hours. Hours vary by location.
- 3. When you register, ask the Prometric customer service representative for a list of valid forms of identification that you will need to present when you take your exam. You will not be allowed to take the test without valid identification.
- 4. Regular exam fees are equivalent to \$125 US Dollars, plus any local taxes.

The exam fee is payable to Prometric by any major credit card (VISA, MasterCard, American Express and Switch Cards) at the time of registration. All discounts must be applied at the time of paying your exam fee.

Changing or Canceling Your Appointment with Prometric

To cancel or reschedule your test appointment, you must call the Prometric Regional Service Center. The cancellation policy by region is:

- The Americas: One business day in advance
- Asia Pacific: By midday (Sydney time) the previous business day

- EMEA: Two business days in advance
- Japan: Three business days in advance

Candidates who do not appear for the test or who cancel less than one business day prior to the test will not receive a refund.

5 Taking Your Tests

Taking a Test

- Arrive at the testing location at least 15 minutes prior to your scheduled appointment.
- 2. Sign the test log and present two forms of identification. One must be a government-issued photo identification. Both forms of identification must contain your signature.
- 3. The test administrator will give you a brief orientation and escort you to a computer terminal where you will take the test. You are not allowed to bring papers, books, bags, or calculators into the room.
- 4. Remember to adhere to the requirements set forth in Oracle Certification Candidate Agreement. You must agree to the terms and conditions in the agreement before completing any Oracle Certification exam. Any attempt to cheat, assist others, or remove exam content from the testing room will not be tolerated and may result in a zero score, disallowance of OCP credential, and/or even prosecution by law.

Obtaining Your Test Results

You will receive your score report immediately after the test. Beta exam score reports are sent to candidates following analysis and scoring of the beta exam. Candidates completing a beta version of a test can expect their score reports 10-12 weeks following the beta period. Your results are automatically

forwarded to Oracle following testing. Please keep a copy of all test reports for your records.

Retaking a Test

Candidates must wait 14 days before retaking a failed exam. There are no exceptions to this policy.

If you do not pass an Oracle Certification exam on the first attempt, Oracle encourages you to use the diagnostic feedback supplied with the score report to review the areas that need further study.

If you receive a low score, an Oracle University training course may be appropriate for you to gain more knowledge. Otherwise, if you only require skillset review in a few areas, we recommend you consult Oracle University Online Learning, where you will find each topic area available as a short course module. Most modules are only 45 minutes. Visit Online Learning at http://www.oracle.com/education/oln/.

After You Are Certified

Receiving Your Oracle Certification Welcome Kit

You will receive your Oracle Certified Associate or Oracle Certified Professional certificate by mail from Prometric within 30 days after successfully completing all the required exams and applicable course requirements. You should use your certificate as verification of your Oracle Certification credential.

Oracle Database 10g OCP candidates who are required to meet the Hands-On Course Requirement will not receive their certificate until their course requirement has been verified. Oracle Database 10g OCP candidates may send their course information by completing the Webform. Select the "Hands-on Course Form" from the Oracle Database 10g OCP path Web page. View the Hands-On Course Requirement details on page 5 of this guide.

If you do not receive your Welcome Kit, send an e-mail to fulfillment@prometric.com and provide your name, Prometric ID number, current mailing address, and daytime phone number.

Oracle Certified Professional Members Web Site

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Visit the Oracle Certification Program Web site at http://www.oracle.com/education/certification/.



Test Content Checklists

The following test content checklists show the objectives covered in the OCP exams.



Test Content Checklist

Oracle Database 10g: Administration I Exam #1Z0-042

Installing Oracle Database	Managing Data
10g Software	☐ Manipulate data through SQL using
☐ Identify system requirements	INSERT, UPDATE, and DELETE
☐ Use Optimal Flexible Architecture	☐ Use Data Pump to export data
☐ Install software with Oracle Universal Installer	☐ Use Data Pump to import data
	☐ Load data with SQL Loader
☐ Identify and configure commonly used environment variables	☐ Create directory objects
Creating an Oracle Database	PL/SQL
☐ Explain the Oracle database	☐ Identify PL/SQL objects
architecture	☐ Describe triggers and triggering events
☐ Explain the instance architecture	Undo Management
☐ Use the management framework	☐ Monitor and administer undo
☐ Use DBCA to Create a database	☐ Configure undo retention
☐ Use DBCA to Configure a database	☐ Guarantee undo retention
☐ Use DBCA to Drop a database	☐ Use the Undo Advisor
☐ Use DBCA to Manage templates	☐ Describe the relationship between
Managing Schema Objects	undo and transactions
☐ Create and modify tables	☐ Size the undo tablespace
☐ Define constraints	Monitoring and Resolving Lock Conflicts
☐ View the attributes of a table	☐ Detect and resolve lock conflicts
☐ View the contents of a table	☐ Manage deadlocks
☐ Create indexes and views	☐ Describe the relationship between transactions and locks
☐ Name database objects	
☐ Select appropriate data types	 Explain lock modes within the Oracl Database 10g
☐ Create and use sequences	

Exam #1Z0-042 Oracle Database 10g: Administration I (continued)

Controlling the Database	Oracle Net Services
☐ Start and stop iSQL*Plus	☐ Use Database Control to Create
☐ Start and stop Enterprise Manager Database Control	additional listeners
☐ Start and stop the Oracle Listener	 Use Database Control to Create Oral Net service aliases
☐ Start and stop the Gracle Easterier ☐ Start up and shut down Oracle ☐ Database 10g	☐ Use Database Control to Configure connect time failover
☐ Describe startup and shutdown options for the Oracle Database	☐ Use Database Control to Control the Oracle Net listener
☐ Handle Parameter files	 Use the Oracle Net Manager to configure client and middle-tier
☐ Locate and view the Database alert log	connections
Oracle Database Security	☐ Use TNSPING to test Oracle Net
☐ Apply the principal of least privilege	connectivity
☐ Manage default user accounts	☐ Describe Oracle Net Services
☐ Implement standard password security features	 Describe Oracle Net names resolution methods
□ Audit database activity □ Register for security updates	Backup and Recovery Concepts
	 Describe the basics of database backup, restore and recovery
	☐ Describe 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 files
	□ Configure ARCHIVELOG mode
	☐ Configure a database for recoverability

Exam #1Z0-042 Oracle Database 10g: Administration I (continued)

Storage Structures	Proactive Maintenance
☐ Define the purpose of tablespaces and	☐ Set warning and critical alert threshold
data files	☐ Collect and use baseline metrics
☐ Create tablespaces	☐ Use tuning and diagnostic advisors
☐ Manage tablespaces (alter, drop, generate DDL, take offline, put on line, add data files, make read-	☐ Use the Automatic Database Diagnostic Monitor (ADDM)
only/read-write)	☐ Manage the Automatic Workload
☐ Obtain tablespace information from EM and the data dictionary	Repository Describe server generated alerts
☐ Drop tablespaces	Database Backups
☐ Describe the default tablespaces	☐ Create consistent database backups
Administering Users	☐ Back up your database without shutting it down
☐ Create and manage database user accounts	☐ Create incremental backups
☐ Create and manage roles	☐ Automate database backups
☐ Grant and revoke privileges	☐ Monitor the flash recovery area
☐ Control resource usage by users	☐ Describe the difference between imag
Oracle Shared Servers	copies and backup sets
☐ Identify when to use Oracle Shared Servers	 Describe the different types of database backups
☐ Configure Oracle Shared Servers	☐ Backup a control file to trace
☐ Monitor Shared Servers	☐ Manage backups
☐ Describe the shared server architecture	Database Recovery
Performance Monitoring	☐ Recover from loss of a Control file
☐ Troubleshoot invalid and unusable	☐ Recover from loss of a Redo log file
objects	☐ Recover from loss of a system-critical data file
☐ Gather optimizer statistics	
☐ View performance metrics	☐ Recover from loss of a non system- critical data file
☐ React to performance issues	

Test Content Checklist

Oracle Database 10g: Administration II Exam #1Z0-043

Using Globalization Support Objectives

Objectives	
☐ Customize language-dependent behavior for the database and individual sessions	
☐ Specify different linguistic sorts for queries	
☐ Use datatime datatypes	
☐ Query data using case insensitive and accent insensitive searches	
☐ Obtain Globalization support configuration information	
Securing the Oracle Listener	
☐ Secure the listener	
☐ Remove default EXTPROC entry and add a separate listener to handle external procedure calls	
Configuring Recovery Manager	

☐ Configure database parameters that

☐ Change RMAN default settings with

☐ Manage RMAN's persistent settings

☐ Start RMAN utility and allocate

affect RMAN operations

CONFIGURE

channels

Using Recovery Manager

☐ Use the RMAN BACKUP command to create backup sets and image copies
☐ Enable block change tracking
☐ Manage the backups and image copies taken with RMAN with the LIST and REPORT commands
Diagnostic Sources
☐ Use the alert log and database trace files for diagnostic purposes
☐ View alerts using Enterprise Manager
☐ Adjust thresholds for tracked metrics
☐ Control the size and location of trace files
Recovering from Non-Critical Losses
☐ Recover temporary tablespaces
☐ Recover a redo log group member
☐ Recover index tablespaces

☐ Recover read-only tablespaces

☐ Recreate the password file

Exam #1Z0-043 Oracle Database 10g: Administration II (continued)

Database Recovery	Dealing with Database
☐ Recover the control file	Corruption
☐ Explain reasons for incomplete recovery	 Define block corruption and list its causes and symptoms
□ Perform incomplete recovery using EM	 Detect database corruptions using the following utilities: ANALYZE DBVERIFY
☐ Perform incomplete recovery using RMAN	☐ Detect database corruptions using the dbms_repair package
☐ Perform incomplete recovery using SQL	☐ Implement the ☐ DB_BLOCK_CHECKING paramet
☐ Perform database recovery following a	to detect corruptions
RESETLOGS operation	☐ Repair corruptions using RMAN
Flashback Database	Automatic Database
Determine which flashback technology	Management
to use for each recovery situation	☐ Use the Database Advisors to gather
☐ Configure and sue Flashback Database	information about your database
☐ Monitor the Flashback Database	☐ Use the SQL Tuning Advisor to
☐ Use the Enterprise Manager Recovery Wizard to flashback database	improve database performance ☐ Use automatic undo retention tunir
☐ Manage (or maintain) the Flash Recovery Area	
Recovering from User Errors	
☐ Recover a dropped table using Flashback technology	
☐ Perform Flashback table operation	
☐ Manage the recycle bin	
Recover from user errors using Flashback versions query	
☐ Perform transaction level recovery using Flashback Transaction query	

Exam #1Z0-043 Oracle Database 10g: Administration II (continued)

Storage	Memory
☐ Tune redo writing and archiving operations	☐ Implement Automatic Shared Memory Management
☐ Issue statements that can be suspended upon encountering space condition errors	 Manually configure SGA parameters for various memory components in the SGA
Reduce space-related error conditions by proactively managing tablespace	☐ Use Automatic PGA Memory Management\
usage	Managing Resources
☐ Reclaim wasted space from tables and	☐ Configure the Resource Manager
indexes using the segment shrink functionality	☐ Assign users to Resource Manager groups
☐ Estimate the size of new table and indexes	☐ Create resource plans within groups
☐ Use different storage options to improve the performance of queries	 Specify directives for allocating resources to consumer groups
☐ Rebuild indexes online	Automating Tasks with the Scheduler
Automatic Storage Management	☐ Simplify management tasks by using the Scheduler
☐ Set up initialization parameter files for ASM and database instances	☐ Create a job, program, schedule, and window
☐ Execute SQL commands with ASM file names	☐ Reuse Scheduler components for similar tasks
☐ Start up and shut down ASM instances	 View information about job execution and job instances
☐ Administer ASM disk groups	
☐ Use RMAN to migrate your database to ASM	,



Test Content Checklist

Oracle Database 10g: New Features for Administrators - Exam #1Z0-040

Installation

- ☐ Describe installation new features support
- ☐ Describe installation performance enhancements.

Server Configuration

- ☐ Simplify instance configuration using a subset of initialization parameters
- ☐ Use policy-based database configuration framework
- ☐ View database usage statistics through EM

Load and Unload Data

- ☐ Transport tablespaces across different platforms
- ☐ Explain Data Pump architecture
- ☐ Monitor a Data Pump job
- ☐ Use Data Pump export and import
- ☐ Create external tables for data population
- ☐ Define your external table properties

Automatic Management

- ☐ Use Automatic Database Diagnostic Monitor
- ☐ Use Automatic Shared Memory Management
- ☐ Use Automatic Optimizer Statistics Collection
- ☐ Use Automatic Undo Retention Tuning

Manageability Infrastructure

- ☐ Monitor and maintain the AWR
- ☐ Use the Active Session History (ASH)
- ☐ Monitor and manage server-generated alerts
- ☐ Explain the automated tasks feature
- ☐ Describe the advisory framework

Application Tuning

- ☐ Use the new optimizer statistics
- ☐ Use the SQL Tuning Advisor
- ☐ Use the SQLAccess Advisor
- ☐ Use the performance pages of Database Control

Exam #1Z0-040 Oracle Database 10g: New Features for Administrators $^{\text{\tiny M}}$ (continued)

System Resource	Space Management
Management ☐ Automatically switch a session back to the original consumer group at the end of the top call ☐ Set idle time-outs for consumer groups ☐ Create mappings for the automatic assignment of sessions to consumer groups Automating Tasks with the scheduler	 Reduce space related error conditions through proactively managing tablespace usage
	☐ Reclaim wasted space from tables and indexes using the segment shrink functionality
	☐ Use the Segment Advisor
	☐ Use the Undo Advisor
	☐ Use sorted hash clusters
☐ Simplify management tasks by using	Improved VLDB Support
the Scheduler	☐ Create and maintain bigfile tablespaces
Create a job, program, schedule and	☐ Create temporary tablespace groups
window ☐ Reuse scheduler components for similar tasks ☐ View information about job executions and job instances	☐ Assign temporary tablespace groups to users
	☐ Skip unusable indexes
	 Specify storage characteristics for index partitions in the table partition DML commands
	☐ Create hash-partitioned global indexes
	 Maintain hash-partitioned global indexes

Exam #1Z0-040 Oracle Database 10g: New Features for Administrators $^{\text{\tiny TM}}$ (continued)

Backup and Recovery Enhancements	Automatic Storage Management
☐ Simplify file management for all recovery-related files	☐ Describe Automatic Storage Management
☐ Reduce restore time by applying incremental backups to data file image copies	☐ Set up initialization parameter files for ASM and database instances
☐ Simplify recovery after opening the database with the RESETLOGS	☐ Execute SQL commands with ASM file names
option	☐ Start up and shut down ASM instance
☐ Speed backup times by creating faster	☐ Administer ASM disk groups
incremental backups ☐ Minimize load requirements by	☐ Use RMAN to migrate your database to ASM
specifying limits in backup time windows	Maintain Software
☐ Save storage space through writing compressed backup sets	☐ Understand the supported upgrade paths to Oracle Database 10 <i>g</i>
Flashback Any Error	 Use new utility to perform pre-upgrad validation checks
 □ Configure and use Flashback Database □ Recover dropped tables with the Flashback Drop feature 	☐ Use simplified upgrade process that automatically determines components
☐ Retrieve row history information with the Flashback Versions Query feature	to be upgraded Start up the database using a new
☐ Audit or recover FROM transactions with the Flashback Transaction Query feature	mode when upgrading Security
	☐ Apply a column level VPD policy
☐ Recover tables to a point in time with	☐ Apply static and non-static policies
the Flashback Table feature	☐ Share VPD policy functions
General Storage Enhancement	☐ Use the unified audit trails
□ Create the SYSAUX tablespace□ Relocate SYSAUX occupants	 Use fine-grained auditing for DML statements
☐ Rename tablespaces	statements
☐ Create a default permanent tablespace	
☐ Copy files using the Database Server	
☐ Use the Redo Loofile Size Advisor	

Exam #1Z0-040 Oracle Database 10g: New Features for Administrators (continued)

Miscellaneous New Features

- ☐ Provide greater flexibility by enabling resumable timeout at the instance level
- ☐ Use regular expression support in SQL and PL/SQL for string searching, matching and replacing
- ☐ Use additional linguistic comparison and sorting methods in SQL
- ☐ Use SQL to flush the buffer cache

Test Content Checklist

Oracle% DBA New Features for Oracle7.3 and Oracle8 OCPs - Exam# 1Z0-035

Using Partitioning: Conceptual Overview	Introduction to Recovery Manager
☐ Describe the general partitioning rules.	☐ Discuss the benefits of using Recovery
Implementing Partitioned Indexes	Manager ☐ Identify the types of backups
☐ Describe the different types of partitioned indexes	Enhancements to Networking
Supporting Commands and Guidelines for Partitioned Tables and Indexes	 Describe the concept of multiplexing Describe the concept of connection pooling
 Describe restrictions that apply to certain operations 	Implementing Password Management
Parallelizing INSERT,	☐ Implement password aging and expiry
UPDATE, and DELETE Operations	Optimizer and Query Improvements
☐ Enable parallel DML for a session Identifying New ROWID	☐ Describe the features of optimizer plan stability
Structures	☐ Explain Top-N SQL queries
 □ Describe the new ROWID format Managing Large Objects □ Differentiate between internal and external LOBs 	☐ Explain automatic parallel execution
	Summary Management
	☐ Build and manage materialized views for Oracle Summaries
Implementing Oracle Advanced Queuing	☐ Build and manage dimensions
☐ Define the advanced queuing concepts	Indexes and Index-Organized Tables
Using Additional New Features	☐ Describe a function-based index
☐ Implement reverse key indexes	Partitioning Improvements
☐ Create and use index-organized tables	☐ Implement range, hash, and composite partitioning
	☐ Describe partition-wise join

Exam #1Z0-035—Oracle9i DBA New Features for Oracle7.3 and Oracle8 OCPs (continued)

LOBs	Oracle Server Security
☐ Define LOBs from a DBA perspective	☐ Explain the new privileged connection
Oracle Universal Installer: Migration and Upgrade	options
☐ Upgrade a database to Oracle9 <i>i</i>	Describe the new security features and their application: Secure Application
□ Explain the features of the database	Role, Global Context, Partitioned Fine- Grained Access Control, and Fine- Grained Auditing
resource manager Manageability Enhancements	General High Availability Technology
□ Relocate and reorganize tables□ Remove unused columns from a table	☐ Describe fast-start time-based recovery limit
□ Define temporary tables Availability and Recoverability Enhancements	☐ Explain the new Oracle Flashback feature
	☐ Describe Resumable Space Allocation
☐ Implement duplex and multiple archive logs	☐ Describe the new Export/Import features
☐ Describe the functionality of LogMiner	Oracle9i LogMiner Enhancements
 Implement fast-start fault recovery Manage corrupt block detection and repair SQL*Plus, PL/SQL, and National Language Support Enhancements Describe the use of PL/SQL for Event Triggers, Autonomous Transactions, and Native Dynamic SQL 	☐ Explain LogMiner new features: DDL statement support, dictionary staleness detection, ability to use an online dictionary, and ability to skip log corruptions
	Backup and Recovery
	☐ Describe new RMAN manageability features: New backup enhancements and new restore/recovery
Database Security	enhancements
☐ Implement fine-grained access control	☐ Describe new RMAN reliability features: Block media recovery (BMR) and Trial Recovery
	☐ Describe other RMAN improvements

Exam #1Z0-035—Oracle9i DBA New Features for Oracle7.3 and Oracle8 OCPs (continued)

Oracle9i Data Guard	Performance Improvements
☐ Explain the Oracle9 <i>i</i> Data Guard	☐ Use the indexes monitoring feature
architecture Configure the physical Standby	 Describe the cursor-sharing enhancements
☐ Configure the physical Standby Database in no-data-loss mode	☐ Identify cached execution plans
☐ Initiate a Database Switchover	•
Operation	☐ Gather system statistics Real Application Clusters
Database Resource Manager Enhancements	☐ Explain cache fusion
☐ Automatically detect long-running operations	☐ Configure a shared server-side initialization parameter file
☐ Automatically limit resource	File Management
consumption other than CPU and DOP	☐ Explain the concept and benefits of Oracle-Managed Files (OMF)
Online Operations	☐ Create and manage OMF files
 Explain online index rebuild new functionality 	☐ Use SQL syntax to remove associated OS files when removing a non-OMF
☐ Describe online table redefinitions	tablespace from the database
☐ Explain online analyze validate	☐ Create and alter default temporary
☐ Describe the use of the Server Parameter File (SPFILE)	tablespaces Tablespace Management
Segment Management (Part I)	☐ Explain the concept of Automatic
☐ Use the automatic global index maintenance feature	Undo Management ☐ Create and maintain UNDO
☐ Explain the use of external tables	tablespaces
☐ Use the new LIST partitioning method	☐ Create and properly use multiple block sizes within a database
☐ Explain the basics of metadata	Memory Management
Application Programming Interface Segment Management (Part II)	 Set parameters to enable automatic and dynamic sizing of SQL working areas
☐ Explain and use the new Automatic Segment-Space Management functionality	☐ Use new columns and views to gather information regarding SQL execution memory management
☐ Create and use bitmap join indexes	☐ Describe the allocation and tracking of memory behind a dynamic SGA

Exam #1Z0-035—Oracle9*i* DBA New Features for Oracle7.3 and Oracle8 OCPs (continued)

Enterprise Manager Enhancements

- ☐ Generate HTML Reports
- ☐ Create user-defined events

SQL Enhancements

- ☐ Use ISO/ANSI—standard SQL syntax, such as Joins, CASE expressions, NULLIF, COALESCE, scalar subqueries, MERGE, and analytical functions
- ☐ Identify other SQL enhancements, such as constraint enhancements, FOR UPDATE WAIT
- ☐ Use the enhancements to LOBs and PL/SQL

Globalization Support

- ☐ Describe the new date and time data types
- ☐ Describe the Unicode enhancements
- ☐ Use the Character Set Scanner

Database Workspaces

- ☐ Version-enable a table
- ☐ Create and assign a workspace

Test Content Checklist

Oracle Database 10g: New Features for Oracle8i OCPs - Exam# 1Z0-045

Oracle Server Security

☐ Explain the privileged connection options

General High Availability Technology

- ☐ Explain the Oracle Flashback feature
- ☐ Describe Resumable Space Allocation

Oracle LogMiner Enhancements

□ Explain LogMiner new features: DDL statement support, dictionary staleness detections, ability to use an online dictionary, ability to skip log corruptions

Backup and Recovery

- ☐ Describe new RMAN manageability features: backup enhancements, restore/recovery enhancements
- ☐ Describe new RMAN reliability features: Block media recovery (BMR), Trial Recovery
- ☐ Block media recovery (BMR), Trial Recovery

Database Resource Manager Enhancements

☐ Automatically limit resource consumption other than CPU and DOP

Online Operations

- ☐ Describe online table redefinitions
- ☐ Describe the use of the Server Parameter File (SPFILE)

Segment Management (Part II)

☐ Explain and use the new Automatic Segment-Space Management functionality

Performance Improvements

☐ Describe the cursor sharing enhancements

File Management

☐ Create and manage OMF files

Tablespace Management

☐ Create and maintain UNDO tablespaces

Memory Management

☐ Set parameters to enable automatic and dynamic sizing of SQL working areas

Exam# 1Z0-045—Oracle Database 10g: New Features for Oracle8i OCPs - (continued)

Globalization Support	Automatic Management
☐ Describe the Unicode enhancements	 Use Automatic Database Diagnostic Monitor
☐ Use the Character Set Scanner	Monitor
Installation	☐ Use Automatic Shared Memory
☐ Describe installation new features	Management
support	☐ Use Automatic Optimizer Statistics
☐ Describe installation performance	Collection
enhancements	☐ Use Automatic Undo Retention
Server Configuration	Tuning
☐ Simplify instance configuration using a	Manageability Infrastructure
subset of initialization parameters	☐ Monitor and maintain the AWR
☐ Use policy-based database configuration framework	☐ Use the Active Session History (ASH)
☐ Use DBCA to clone database	☐ Monitor and manage server-generated
☐ View database usage statistics through	alerts
EM	☐ Explain the automated tasks feature
Load and Unload Data	☐ Describe the advisory framework
☐ Transport tablespaces across different platforms	Application Tuning
	☐ Use the new optimizer statistics
☐ Explain Data Pump architecture	☐ Use the SQL Tuning Advisor
☐ Monitor a Data Pump job	☐ Use the SQLAccess Advisor
☐ Use Data Pump export and import	☐ Use the performance pages of
☐ Create external tables for data population	Database Control
☐ Define your external table properties	

Exam# 1Z0-045—Oracle Database 10g: New Features for Oracle8i OCPs - (continued)

System Resource	Improved VLDB Support
Management	☐ Create and maintain bigfile tablespaces
☐ Automatically switch a session back to the original consumer group at the end	☐ Create temporary tablespace groups
of the top call	☐ Assign temporary tablespace groups to
☐ Set idle time-outs for consumer groups	users
☐ Create mappings for the automatic	☐ Skip unusable indexes
assignment of sessions to consumer groups	 Specify storage characteristics for index partitions in the table partition DML
Automating Tasks with the	commands
Scheduler	☐ Create hash-partitioned global indexes
☐ Simplify management tasks by using the Scheduler	 Maintain hash-partitioned global indexes
☐ Create a job, program, schedule and window	Backup and Recovery Enhancements
☐ Reuse scheduler components for similar tasks	☐ Simplify file management for all recovery-related files
☐ View information about job executions and job instances	☐ Reduce restore time by applying incremental backups to data file image
Space Management	copies
☐ Reduce space related error conditions through proactively managing tablespace usage	☐ Simplify recovery after opening the database with the RESETLOGS option
☐ Reclaim wasted space from tables and indexes using the segment shrink functionality	☐ Speed backup times by creating faster incremental backups
☐ Use sorted hash clusters	
☐ Use the Segment Advisor	

Exam# 1Z0-045—Oracle Database 10g: New Features for Oracle8i OCPs - (continued)

Flashback Any Error	Maintain Software
□ Configure and use Flashback Database	☐ Understand the supported upgrade
☐ Recover dropped tables with the Flashback Drop feature	paths to Oracle Database 10g Use new utility to perform pre-upgrad
☐ Retrieve row history information with the Flashback Versions Query feature	validation checks ☐ Use simplified upgrade process that
 Audit or recover FROM transactions with the Flashback Transaction Query 	automatically determines components to be upgraded
feature	☐ Start up the database using a new mode when upgrading
☐ Recover tables to a point in time with the Flashback Table feature	Miscellaneous New Features
General Storage Enhancement	☐ Provide greater flexibility by enabling
☐ Create the SYSAUX tablespace	resumable timeout at the instance leve
☐ Relocate SYSAUX occupants	☐ Use regular expression support in SQI and PL/SQL for string searching,
☐ Rename tablespaces	matching and replacing
☐ Create a default permanent tablespace	☐ Use additional linguistic comparison
☐ Copy files using the Database Server	and sorting methods in SQL
☐ Use the Redo Logfile Size Advisor	☐ Use SQL to flush the buffer cache
Automatic Storage Management	
 Describe Automatic Storage Management 	
☐ Set up initialization parameter files for ASM and database instances	
☐ Execute SQL commands with ASM file names	
☐ Start up and shut down ASM instances	
□ Administer ASM disk groups	
☐ Use RMAN to migrate your database to ASM	

Test Content Checklist

Oracle9: New Features for Administrators Exam# 1Z0-030

Oracle Server Security

- ☐ Explain the new privileged connection options
- ☐ Describe the new security features and their application: Secure Application Role, Global Context, Partitioned Fine-Grained Access Control, and Fine-Grained Auditing
- ☐ Describe the optional security products

General High Availability Technology

- ☐ Explain new features designed to harden the database against unplanned down time
- ☐ Describe minimal I/O recovery
- ☐ Describe fast-start time-based recovery limit
- ☐ Explain the new Oracle Flashback feature
- ☐ Describe Resumable Space Allocation
- ☐ Describe the new Export/Import features

Oracle9i LogMiner Enhancements

- ☐ Explain LogMiner new features: DDL statement support, dictionary staleness detection, ability to use an online dictionary, and ability to skip log corruptions
- ☐ Describe the LogMiner Viewer

Backup and Recovery

- ☐ Describe the new RMAN manageability features: New backup enhancements and new restore/recovery enhancements
- ☐ Describe the new RMAN reliability features: Block media recovery (BMR) and Trial Recovery
- ☐ Describe other RMAN improvements

Oracle9i Data Guard

- ☐ Explain the Oracle9*i* Data Guard architecture
- ☐ Configure the physical Standby Database in no-data-loss mode
- ☐ Initiate a Database Switchover operation
- ☐ Set up automatic archive gaps detection
- ☐ Launch managed recovery mode in the background
- ☐ Apply a delay to redo application on the standby site

Database Resource Manager Enhancements

- ☐ Automatically detect long-running operations
- ☐ Automatically limit resource consumption other than CPU and DOP

Exam #1Z0-030—Oracle9i: New Features for Administrators (continued)

Online Operations	Real Application Clusters
☐ Discuss the new features designed to	☐ Explain cache fusion
reduce planned down time Explain online index rebuild new	 Configure a shared server-side initialization parameter file
functionality	File Management
☐ Explain online functionality for index- organized tables (IOTs)	☐ Explain the concept and benefits of Oracle-Managed Files (OMF)
☐ Describe online table redefinitions	☐ Create and manage OMF files
☐ Explain online analyze validate	☐ Use SQL syntax to remove associated
☐ Describe the use of the Server Parameter File (SPFILE)	OS files when removing a non-OMF tablespace from the database
Segment Management (Part I)	☐ Create and alter default temporary
☐ Use the automatic global index maintenance feature	tablespaces Tablespace Management
☐ Explain the use of external tables	 Explain the concept of Automatic Undo Management
☐ Use the new LIST partitioning method	☐ Create and maintain UNDO
☐ Explain the basics of metadata Application Programming Interface	tablespaces
Segment Management (PartII)	☐ Create and properly use multiple block sizes within a database
☐ Explain and use the new Automatic	Memory Management
Segment-Space Management functionality	☐ Set parameters to enable automatic and dynamic sizing of SQL working areas
☐ Create and use bitmap join indexes	•
Performance Improvements	☐ Use new columns and views to gather information regarding SQL execution
☐ Use the indexes monitoring feature	memory management
☐ Describe skip scan index access	☐ Describe the allocation and tracking of
☐ Describe the cursor-sharing enhancements	memory behind a dynamic SGA
☐ Identify cached execution plans	
☐ Use the new first rows optimization	
☐ Gather system statistics	

Exam #1Z0-030—Oracle9i: New Features for Administrators (continued)

Enterprise Manager	Globalization Support
□ Describe the new look and feel of the	☐ Describe the new date and time data types
Console	☐ Describe the Unicode enhancements
☐ Use the Console in the standalone mode	 Describe the enhanced sorting functionality
☐ Explain the Enterprise Manager functionality that supports Oracle9 <i>i</i>	☐ Use the Character Set Scanner
Database features	☐ Explain the new byte and character
☐ Generate HTML reports	semantics
☐ Create user-defined events	☐ Use the Locale Builder
SQL Enhancements	Database Workspaces
□ Use ISO/ANSI standard SQL syntax,	☐ Identify the Workspace Manager role
such as Joins, CASE expressions,	☐ Version-enable a table
NULLIF, COALESCE, scalar subqueries, MERGE, and analytical functions	 Disable workspace participation for a table
	☐ Create and assign a workspace
☐ Identify other SQL enhancements, such as constraint enhancements, FOR UPDATE WAIT	Explain Import and Export considerations
☐ Use the enhancements to LOBs and	

PL/SQL

Test Content Checklist

Oracle&: New Features for Administrators Exam# 1Z0-020

Java in the Database	Partitioning Improvements
☐ Describe Oracle Java components	☐ Revise the general partitioning
☐ Describe JServer installation	concepts
☐ Tune JServer	☐ Implement range, hash, and composite partitioning
Optimizer and Query Improvements	☐ Explain ENABLE/DISABLE ROW MOVEMENT
☐ Describe the features of optimizer plan stability	☐ Explain the new partition pruning
 Describe the contents of the DBMS_STATS package 	capabilities ☐ Describe partition-wise join
☐ Explain Top-N SQL queries	☐ Review partition maintenance
☐ Identify new SQL keywords for computing subtotals	operations LOBs
☐ Identify new sort processing options	☐ Define LOBs from a DBA perspective
☐ Explain automatic parallel execution	Oracle Universal Installer: Migration and Upgrade
Summary Management	☐ List the features of Oracle Universal
☐ Build and manage Materialized views	Installer
for Oracle Summaries ☐ Build and manage Dimensions	☐ Migrate an Oracle7 database to Oracle8 <i>i</i>
Index and Index-Organized Tables	☐ Upgrade an Oracle8 database to Oracle8 <i>i</i>
☐ Describe bitmap indexes improvements	Tablespace Management
☐ Describe a function-based index	☐ Manage locally managed tablespaces
□ Build an index online	☐ Manage transportable tablespaces
☐ Compute index statistics	☐ Use read-only tablespace enhancement
☐ Describe an index-organized table (IOT)	
□ Explain logical ROWIDs	
☐ Create multiple indexes on an IOT	
☐ Explain how to partition an IOT	

Exam #1Z0-020—Oracle8*i*: New Features for Administrators (continued)

Features of Net8
☐ Describe the new service naming scheme
☐ Explain automatic registration
☐ Describe load balancing
☐ Configure the network for JServer
SQL*Plus, PL/SQL, and
National Language Support Enhancements
☐ Use SQL*Plus for database
management
☐ Describe the use of PL/SQL for Event Triggers, Autonomous Transactions, and Native Dynamic SQL
Database Security
☐ Describe N-Tier authentication
☐ Describe invoker's rights security
management
☐ Implement application context areas
☐ Implement fine-grained access control

operations

Test Content Checklist

Oracle&: New Features for Administrators Exam# 1Z0-010

Using Partitioning: Conceptual Overview	Identifying New ROWID Structure
□ Describe the benefits of partitioning□ Describe the general partitioning rules	☐ Describe the new ROWID format in Oracle8
☐ Describe the general partition restrictions	☐ Use the new ROWID format in Oracle8
Implementing Partitioned Indexes □ Describe the different types of partitioned indexes □ Plan an indexing strategy to support your applications □ Describe general partition restrictions Supporting Commands and Guidelines for Partitioned Tables and Indexes □ Explain the various commands to support partition management	 □ Use the DBMS_ROWID package Defining Object Relational Features □ Define an object relational database □ Describe the object concepts in Oracle8 □ Create a basic object type □ Create and use an object view Managing Large Objects □ Compare and contrast LONG and
 Describe restrictions that apply to certain operations 	large object (LOB) data types □ Create and maintain LOB data types
☐ Describe data dictionary tables that provide information on partitions	☐ Differentiate between internal and external LOBs
Parallelizing INSERT, UPDATE, and DELETE Operations	☐ Utilize the DBMS_LOB PL/SQL package
☐ Describe the advantages of parallel data manipulation language (DML)	Implementing Oracle Advanced Queuing
☐ Use hints and the parallel clause to set the degree of parallelism for a DML statement	 □ Define the advanced queuing concepts □ Create and send messages using the ENQUEUE procedure
 Execute parallel UPDATE and DELETE operations on partitioned tables 	☐ Administer the queues and queue tables
☐ Use the data dictionary views associated with parallel DML	

Exam #1Z0-010—Oracle8: New Features for Administrators (continued)

Using Additional New Features	Using RUN Commands and Scripts in Recovery Manager
☐ Implement new types of constraint checking and enforcement	 Manage backup, copy, restore, and recovery operations using the Recovery Manager
☐ Implement reverse key indexes☐ Describe index-organized tables	☐ Create and execute scripts to perform backup and recovery operations
☐ Create and use index-organized tables	Enhancements to Networking
☐ Identify the new security enhancements	☐ Describe the concept of multiplexing
☐ Configure a large pool System Global Area (SGA) area	☐ Describe the concept of connection pooling
☐ Take advantage of National Language	☐ Describe the new features of naming services
Support (NLS) enhancements	☐ Describe the connectivity features
☐ Use external procedures☐ Describe the Oracle8 raised size	☐ Describe the security features
ceilings	☐ Describe the performance benefits
Introduction to Recovery Manager	 Describe the possibilities of configuration and administration
☐ Describe the Recovery Manager architecture	Implementing Password Management
☐ Discuss the benefits of using Recovery	☐ Implement account locking
Manager	☐ Implement password aging and expiry
☐ Identify the types of backups	☐ Implement password complexity
☐ Describe the use of the Recovery Manager Catalog	verification Migrating Server and Applications
☐ List associated data dictionary views	☐ Explain the Migration Utility
Using Catalog Commands and Reports in Recovery Manager	☐ Explain the steps to complete a migration to Oracle8
☐ Maintain the contents of the recovery catalog	☐ Explain the migration options
☐ Generate reports and lists from the recovery catalog	
☐ Create and execute scripts to perform backup and recovery operations	

Oracle Database 10g Certified Master Exam

Server Configuration	☐ Monitor Flashback Database logs and
☐ Create the database	statistics
☐ Determine and set sizing parameters for database structures	 Perform a Flashback Database operation
☐ Create and manage temporary,	☐ Configure a flash recovery area
permanent, and undo tablespaces	Performance Management
☐ Stripe data files across multiple physical devices and locations	☐ Install Statspack
☐ Configure the database environment to	☐ Adjust the default interval for statistics collection
support optimal data access performance	☐ Customize the events that are monitored
☐ Create and manage database configuration files	☐ Use ADDM to analyze statistics and to identify performance bottlenecks and
☐ Create and manage bigfile tablespaces	fix them
☐ Create and manage multiple network configuration files	☐ Implement automatic shared memory management
☐ Create and configure a listener	☐ Tune memory using manual memory
☐ Configure the database instance to	management
support shared server connections	☐ Monitor and tune SGA areas that are not automatically tuned
☐ Set up network tracing	·
☐ Manage Oracle network processes (the Listener Control utility)	☐ Implement automatic SQL execution memory management
☐ Configure the network environment to allow connections to multiple	☐ Tune the PGA using work area size parameters
databases	☐ Use the PGA Advisor
☐ Use configurationless connections	☐ Create a Database Resource Manager plan with directives (active session
Managing Database Availability	count, max execution time)
☐ Create a recovery catalog database	☐ Create consumer groups
☐ Configure Recovery Manager	☐ Configure consumer group mappings
☐ Use Recovery Manager to perform database backups	☐ Manage Services (Oracle Database 10g Release 2)
☐ Use Recover Manager to perform complete database restore and recovery operations	 Create and manage objects to accommodate different data access methods (schema tuning)
☐ Set Flashback Database parameters	☐ Use the SOL Tuning Advisor

Oracle Database 10g Certified Master Exam (continued)

☐ Use the SQL Access Advisor	☐ Configure the Enterprise Manager	
☐ Gather Optimizer statistics	repository	
☐ Interpret execution plan	☐ Create Enterprise Manager Grid Control users	
☐ Use SQL tuning tools and features		
Data Management	 Use Enterprise Manager to modify a database configuration 	
☐ Implement fine-grained auditing	☐ Configure Enterprise Manager to	
☐ Create a secure application role	modify a database availability	
☐ Grant specific privileges for a	☐ Create and manage jobs	
Flashback Query	☐ Create and monitor alerts	
☐ Set parameters for retaining undo	☐ Create notifications	
☐ Implement fine-grained access control	☐ Implement Grid Control and Database	
☐ Create and manage contexts	Control	
□ Use SQL*Loader	☐ Choose the appropriate tablespace type	
☐ Implement transportable tablespaces	for the intended use	
between homogeneous and heterogeneous systems (using different	☐ Create Scheduler jobs	
methods of moving files)	☐ Create schedules	
☐ Choose the appropriate partition	☐ Assign jobs to windows	
method (range, hash, list, and	☐ Create programs	
composite)	☐ Create job classes	
☐ Choose the appropriate partition key	☐ Install the Enterprise Manager Grid	
☐ Choose appropriate indexing methods (local, global, prefixed, and	Control infrastructure	
nonprefixed)	☐ Deploy Enterprise Manager Grid	
☐ Perform partition maintenance	Control agents	
operations	☐ Configure Grid Control for business requirements	
☐ Maintain indexes on a partitioned table	Data Warehouse Management	
☐ Create and manage LOB segments	☐ Create external tables (Data Loader	
☐ Apply parallelism appropriately	and Data Pump drivers)	
☐ Tune memory for parallel operations	☐ Implement Data Pump export and	
☐ Set parallel parameters	import jobs for data transfer	
Enterprise Manager Grid Control	☐ Implement Data Pump to and from remote databases	
☐ Install the Enterprise Manager Grid Control software	☐ Implement Replication/Streams	

Oracle Database 10*g* Certified Master Exam (continued) **Data Guard** ☐ Configure and manage master replication ☐ Use Data Guard Manager and **DGMGRL** ☐ Configure and manage distributed materialized views ☐ Create and utilize a physical standby database ☐ Configure and manage Streams for replication ☐ Create and utilize a logical standby database **Real Application Clusters** ☐ Install Cluster Ready Services ☐ Set up log transport services for various levels or protection ☐ Install the Oracle Database 10*g* software ☐ Configure the network environment to allow communication between the ☐ Implement ASM failure groups standby database and the primary ☐ Create and manage as ASM instance database ☐ Create and manage ASM disk groups ☐ Open the physical standby database in a "ready-only" state ☐ Configure ASM for the shared disks, and create a clustered database ☐ Perform a switchover operation and a failover operation ☐ Configure archiving ☐ Implement Data Guard ☐ Configure Services with a primary

instance and an available instance



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Nepal	Australia	
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