



# Oracle DBA Certification Training

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## About the Program

This Oracle DBA certification training aims to make you certified in Oracle DBA. This training program is led by industry experts from top companies, such as IBM, Amazon, etc., across the world. Further, our course instructors will teach you to operate system blocks, build compression policies, etc. With lifelong access to the courseware and community, you can revisit any topic whenever you want and clear your doubts. Get the best online Oracle Database Administrator course from top certified mentors.

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## About Intellipaate

Intellipaate is one of the leading e-learning training providers with more than 600,000 learners across 55+ countries. We are on a mission to democratize education as we believe that everyone has the right to quality education.

Our courses are delivered by subject matter experts from top MNCs, and our world-class pedagogy enables learners to quickly learn difficult topics in no time. Our 24/7 technical support and career services will help them jump-start their careers in their dream companies.

# Key Features



**18 HRS INSTRUCTOR-LED  
TRAINING**



**18 HRS SELF-PACED TRAINING**



**28 HRS REAL-TIME  
PROJECT WORK**



**LIFETIME ACCESS**



**24/7 TECHNICAL SUPPORT**



**INDUSTRY-RECOGNIZED  
CERTIFICATION**



**JOB ASSISTANCE THROUGH  
80+ CORPORATE TIE-UPS**



**FLEXIBLE SCHEDULING**

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# Career Support



## **SESSIONS WITH INDUSTRY MENTORS**

Attend sessions from top industry experts and get guidance on how to boost your career growth



## **MOCK INTERVIEWS**

Mock interviews to make you prepare for cracking interviews by top employers



## **GUARANTEED INTERVIEWS & JOB SUPPORT**

Get interviewed by our 400+ hiring partners



## **RESUME PREPARATION**

Get assistance in creating a world-class resume from our career services team



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## Why take up this course?

- Oracle is the market leader in relational databases with a 48.35% market share – Gartner
- An Oracle Database Administrator can earn US\$94,000 in the United States – Indeed
- Being an Oracle Certified Professional (OCP) is crucial to work as an Oracle DBA – Oracle

Oracle DBA is associated with the relational database management system. The role of a Database Administrator is crucial to managing huge volumes of data in large enterprises. Hence, Oracle DBA professionals are in great demand. This training course will provide you with the necessary skills to take on jobs as Database Administrators in top companies for big salaries.

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## Who should take up this course?

- Software Developers and IT Professionals
- Database Analysts and Administrators
- SQL Programmers and Architects
- Project Managers
- Those aspiring for a career in Oracle DBA

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# Program Curriculum

## Oracle 12c DBA Course Content

### 1. DATABASE INTRODUCTION

What is the Oracle Database? How does it function? What are its pre-requisites? Multiple non-CDB's share nothing, Oracle Database 12c installation, multitenant architecture, non-CDB Oracle system data mixed with user data, multitenant container database, and pluggable database

### 2. ORACLE DATABASE 12C ARCHITECTURE

Architecture of Oracle Server, the key components – Oracle Instance and Oracle Database, the various file types – data files, control files, and redo log files, benefits of CDB, easier management of databases, support for Oracle Database Resource Manager, pluggable database (PDB), database instance, contents of CDB and pluggable DB, control files and redo log files, shared Oracle supplied metadata, root container, data dictionary, and the creation of PDBs – seed PDB limit PDB

### 3. ORACLE STORAGE STRUCTURES

The basics of Oracle storage structures, logical storage units like tablespaces, data blocks, extents and segments, database schemas, schema objects, operating system blocks, table statement and way to check 'create table,' the instance, the CDB, containers, root containers, PDB, local user and common user, local privileges and common privileges, steps to create a container database, creating a container database using sqlplus, and database configuration assistance

### 4. MEMORY & PROCESS ARCHITECTURE

Oracle Instance: background processes and memory structures, Oracle process and memory architecture, shared pool, redo log buffer, and buffer cache, different methods of creating PDB, steps involved in PDB, using PDB\$SEED, without FILE\_NAME\_CONVERT, synchronization, plug a non-CDB to CDB, plug a non-CDB into CDB using DBMS\_PDB, clone PDBS, plug and un-plug, and plug unplugged CDB in to CDB

## 5. ALERT & TRACE FILES

Oracle background process errors monitored using trace files and alert logs and how this can be deployed for Oracle Administration and support

## 6. DATABASE STARTUP & USER REQUESTS

The methodology of starting a database instance, initializing parameter files, preparing for startup, serving user requests, understanding the server process and user process, administrative activities on PDB, new views associated with PDBS, determining which PDB you are in, four functions, opening, closing, and altering the open mode of PDBS, setting up default and temporary table places for a PDB, using the alter system command from within a PDB, and the instance parameter change impact

## 7. MANAGING DATA WITH ILM

What is automatic data optimization? ILM components, ILM challenges, heat map and ADO, DBA heat map segment view, monitoring statistics, creating compression polices, creating storage tiering policy, and preparing for evolution and execution

***Hands-on Lab:*** Automatic data optimization, reduction policies, and altering policy

## 8. DATABASE SECURITY

Learning about the powerful Oracle Database security features, data privacy, regulatory compliance, the 'create user' process, altering and dropping users, generating profiles and limiting resources, auditing, activity monitoring, and blocking

## 9. DATABASE SCHEMA OBJECTS

Understanding database schema objects, various types available such as views, tables, clusters, indexes, sequences, database links, packages, and procedures, learning how data is stored in database tables, and creating temporary tables and external tables

## 10. DATABASE RESOURCE MANAGER

Resource manager and pluggable database, managing resources between PDBs, CDB resource plan basics:share, CDB resource plan basics:Limits, creating a CDB resource plan, creating a CDB resource plan:SQL example, enabling a CDB resource plan, and managing a PDB resource plan



## **11. DEEP DIVE INTO SCHEMA OBJECTS**

Mastering database schema objects, learning about materialized view, deploying user-generated schema object for generating a sequence, the balanced search tree index structure for placing and locating files, learning about data concurrency and data consistency in multi-user databases, and the concepts of locking and deadlocks

## **12. ORACLE NETWORK ENVIRONMENT**

Study the client/server network environment, configuring the network, connecting to the database, the Oracle Network Environment and database link, starting up an instance, SHOUT DOWN, NOMOUNT, MOUNT, OPEN, PDB, OPEN, and clone PDBS

## **13. ORACLE BACKUP & RECOVERY**

Understanding how Oracle Database ecosystem backup and recovery is deployed, database testing, database standby, media recovery options, backup in the offline mode, CDB backup and recovery, archiving challenges and solutions, in database archiving, security and performance, audit architecture, consolidation: unique audit trail, extended audit information, data pump audit policy, and new administrative privileges: new administrative privileges:SYSBACKUP, new administrative privileges:SYSDG, and new administrative privileges:SYSKM

## **14. ORACLE RECOVERY MANAGER (RMAN)**

Significance of Oracle Recovery Manager, how it deploys performance, management and restoration of entire databases, SQL Loader, Oracle Data Pump for importing and exporting, and support for the external table

## **15. DATA DICTIONARY & DYNAMIC PERFORMANCE TABLES**

Oracle Data Dictionary contains information related to database privileges, objects, users, and roles, dynamic performance table for identifying instance-level problems, getting complete knowledge to work with Oracle DBA, connecting to access DBA, data dictionary views, after CDB creation, alert log file, provisioning new pluggable databases NOARCHIVELOG mode, media failure, flashback CDB, and data dictionary views

## **16. DATABASE TUNING**

What is database tuning? Skills needed to lower response time, increase throughput for time-sensitive applications, how to optimize the storage space, deploying SQL scripts, index statistics and selectivity, how to tune the database, and chained row and lock in Oracle

## **17. DATABASE TUNING (CONT.)**

In-depth understanding of Oracle Database tuning, shared pool tuning, how to improve the performance with the help of the data dictionary, tuning the data dictionary, implementing the PL/SQL code, and reusing the code and database buffer

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# Project Work

## Oracle DBA Projects

### **Tuning of the Database**

Through this project, you will learn how to optimize Oracle Database and perform database tuning on it. You will get to work with space usage monitoring, SQL script monitoring, database and SQL tuning, table and index statistics, and chained rows and locks. The project involves deploying database performance tuning, which includes optimizing and homogenizing the database performance.

### **Building an Airline Ticketing Website**

You will be asked to build a website for online flight ticket booking powered by Oracle Database. Through this project, you will learn all about the security and monitoring features of Oracle Database and get to work with Oracle storage structure and architecture, Oracle server processes and user processes, initializing database instances, and handling user requests.

### **HR Management Powered by Oracle Database**

Here, you will create a human resource database to simplify the process of employee management. With this project, you will acquire hands-on experience in table creation, Oracle storage structure, and database security and regulatory compliance. You will also be creating Oracle Database schema objects.

# Certification

After the completion of the course, you will get a certificate from IntelliPaat.



## CERTIFICATE OF COMPLETION

This certificate is awarded to

Your Name

Who has successfully completed

**Course Name**

Fulfilling all the requirements stipulated by IntelliPaat to achieve professional excellence.

Issued Date: Month XX, XXXX



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## Success Stories



### **Kevin K Wada**

Thank you very much for your top-class service. A special mention should be made for your patience in listening to my queries and giving me a solution, which was exactly what I was looking for. I am giving you a 10 on 10!



### **Sampson Basoah**

The Intellipaateam helped me in selecting the perfect course that suits my profile. The whole course was practically oriented, and the trainers were always ready to answer any question. I found this course to be impactful. Thank you.



### **Sugandha Sinha**

Intellipaate's course instructors were excellent and well-versed with their concepts. The support team solved all my queries within the promised 24 hours. They explained all topics and concepts well, and the course material was updated and included videos, exercises, etc. I would highly recommend Intellipaate to those who wish to excel in the IT field.



### **Vishal Pentakota**

The best part of this course was the series of hands-on demonstrations that the trainer performed. Not only did he explain each concept theoretically, but he also implemented all those concepts practically. Great job! A must go for beginners.

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## CONTACT US

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If you have any further queries or just want to have a conversation with us, then do call us.

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