

## Oracle Database Administration

*Barcelona (Spain)*

*17 - 21 February 2025*

UK Training

# PARTNER



# Oracle Database Administration

Code: IT28 From: 17 - 21 February 2025 City: Barcelona (Spain) Fees: 5100 Pound

## Introduction

Effective Oracle Database Administration is crucial for maintaining the performance, security, and scalability of database systems in today's fast-paced business environment. This course delves deeply into advanced Oracle Database concepts, providing participants with the expertise and tools necessary to efficiently manage, secure, and optimize Oracle databases. Through hands-on exercises in performance tuning, automation, high availability, and security, participants will be fully prepared to address complex database management challenges.

## Course Objectives

- Develop advanced proficiency in Oracle Database administration.
- Master techniques for performance tuning and query optimization.
- Implement and manage robust security measures for Oracle databases.
- Automate routine Oracle database tasks using scripting and Oracle tools.
- Ensure high availability, scalability, and disaster recovery for Oracle databases.
- Troubleshoot and resolve complex Oracle database issues effectively.

## Course Outlines

### Day 1: Oracle Database Architecture & Configuration

- Overview of Oracle Database Architecture.
- Key components: SGA, PGA, background processes, and memory structures.
- Database instance management: startup, shutdown, and dynamic parameter adjustments.
- Advanced configuration and tuning of Oracle Listener.

### Day 2: Performance Tuning & Query Optimization

- In-depth understanding of Oracle performance architecture AWR, ASH, Statspack.
- Query optimization methods: EXPLAIN PLAN, SQL Trace, and Indexing techniques.
- Memory management: tuning SGA and PGA to maximize performance.
- Real-time performance monitoring through Oracle Enterprise Manager OEM.

### Day 3: Security & Data Protection

- Implementing Oracle Advanced Security features TDE, Data Redaction.
- Managing Oracle user roles, privileges, and profiles effectively.
- Auditing and compliance with Oracle Database Vault and fine-grained auditing.
- Backup and recovery using RMAN Recovery Manager and Flashback technologies.

## Day 4: High Availability & Disaster Recovery

- Configuring Oracle Real Application Clusters RAC for high availability.
- Setting up Oracle Data Guard: failover, switchover, and recovery operations.
- Implementing Automatic Storage Management ASM.
- Leveraging Oracle GoldenGate for data replication and synchronization.

## Day 5: Automation & Cloud Integration

- Automating Oracle database tasks with DBMS\_SCHEDULER and Oracle Enterprise Manager.
- Scripting for routine database maintenance using PL/SQL and shell scripting.
- Managing Oracle databases in the cloud: Autonomous Database and Exadata Cloud Service.
- Database migration strategies to Oracle Cloud Infrastructure OCI.

## Why Attend This Course: Wins & Losses!

By attending this course, you will gain critical skills to efficiently manage Oracle databases in a complex enterprise environment. Participants will benefit by:

- ▣ Mastering performance tuning and query optimization techniques to enhance database efficiency.
- ▣ Implementing robust security measures to safeguard sensitive data.
- ▣ Automating database tasks to improve productivity and reduce manual effort.
- ▣ Ensuring high availability and disaster recovery to maintain business continuity.
- ▣ Gaining expertise in managing Oracle databases in the cloud, which promotes business innovation and scalability.

## Conclusion

This course is an essential step for database professionals looking to enhance their Oracle Database administration skills. With comprehensive knowledge of advanced Oracle concepts, along with practical experience in performance tuning, security, automation, and high availability, participants will be prepared to tackle complex database management challenges and contribute to the success of their organizations.



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**BLACKBIRD**  
FOR TRAINING

 International House 185 Tower Bridge  
Road London SE1 2UF United Kingdom

 +44 7401 1773 35  
+44 7480 775526

 [Sales@blackbird-training.com](mailto:Sales@blackbird-training.com)

 [www.blackbird-training.com](http://www.blackbird-training.com)

