

# Oracle 10G DBA: (Part 1 – The Basics) (4 Day)

## ➤ Oracle 10G DBA: (Part 1 – The Basics)

The course is intended for those who need to find out how to administer an ORACLE database, be this from the viewpoint of DBA, project manager, developer, or as support staff. Throughout the course, the training follows a pattern of firstly how and why ORACLE works as it does, followed by how to engineer changes, hands-on. Lastly, as the course moves on and the delegate acquires more skills, business based workshops are introduced. These require you to decide how the database should be built, deployed and managed, as well as drawing upon the hands-on skills needed to effect an actual outcome based on your decisions.

A real-world view of the training is adopted, to take the delegate past the training lab and into the world of business computing. Your contribution to the labs is highly valued in this respect. Feel free to discuss issues relating to your own businesses, especially where the class as a whole would benefit from seeing what problems, and options to solve them, exist outside the lab.

Should you need examples to help you get started with individual commands or collections of actions, a resource for DBA delegates has been provided in the form of a classroom CBT web site. Please feel free to take this away with you on floppy disk, for your own personal use. Routines are included to facilitate the complete reconstruction of the classroom environment on a machine at work that you may wish to practice on.

Please note the course is a general DBA course. Should you require training in more detail in any aspect of Oracle DBA, we are able to provide you with dedicated training in specialist areas such as backup and recovery, database security, performance management, and networking databases.

## ➤ Who should attend?

- Progression path to specialist Oracle DBA
- First and second line support
- Oracle developers wishing to know about the underlying RDBMS
- Those seeking an introduction to Oracle DBA
- The content is suitable for DBAs managing earlier releases of Oracle

## ➤ Prerequisites

Delegates must be familiar with Oracle. This is essential. Ideally you should have received the introductory course and had some months direct experience with Oracle in the workplace subsequently. There is a great deal of information to take in over the time we are together and the pace of the course is necessarily brisk. The more previous Oracle experience you have had, the more you will get out of the course. If you have used Oracle SQL for some time and are familiar with the terminology used by Oracle specialists, you will be able to take this course in your stride.

**DURATION 4 DAYS**  
**COURSE CODE c2ORPT1-1**

## Course Content

☒ Introducing database administration  
Responsibilities of a DBA; Elements of an RDBMS; Client server considerations; Database administrative tools; Enterprise Manager

☒ Installing Oracle  
The System Global Area and Background ; Processes; Memory structures; Background processes; Data dictionary; Oracle 10G data dictionary specifics

☒ Tablespaces  
ORACLE Optimal Flexible Architecture (OFA); Storage strategies; Managing the tablespace system object; Moving a tablespace; Monitoring tablespace growth; Oracle managed datafiles (OMF); Logical organisation within datafiles ; Rollback segments (supported, but deprecated since Oracle 9i); Temporary tablespace groups; Rename tablespace; Bigfile tablespace; Cross-platform transportable tablespaces; SYSAUX tablespace

☒ Creating a database  
Instance management; Components of a database; Creating and deleting a database; Startup and shutdown; Loading the catalogue; Easy database creation using OMF; System parameters; Alter system, alter database, alter session; Database i/o control; Multiple block sizes; The ASM instance

☒ Localised resilience mechanisms  
Undo management; Flashback query; 10G extended flashback functions; Resumable space management

☒ Problems with data storage  
Fragmentation of blocks and extents; Deleted rows fail to release space; Chained rows; List partitioning; Constraints; External tables; Extracting definitions; DBMS\_METADATA

☒ Users and Security  
User management strategies; Managing the user object; Limiting consumption of resources: - user profiles - resource management  
Managing security: - permission and privilege, role, trusted login to ORACLE, operating system privileges, OSOPER, OSDBA; The audit subsystem; Fine grained access control (FGAC); Fine grained auditing (FGA)