# Course : Oracle Database, backup and restore

**Versions 23ai to 12c**
*Practical course - 5d - 35h00 - Ref. ORK*
*Price : 3220 CHF E.T.*

★★★★  4 / 5

This course is aimed at Oracle DBAs wishing to establish an effective backup strategy for Oracle database versions 18 to 23ai. It will cover ARCHIVELOG mode, RMAN, special backup/restore scenarios, LogMiner and the use of Flashback Database.

## 🎯 Teaching objectives

**At the end of the training, the participant will be able to:**

- ✓ Establish a management strategy for Oracle Database backup and recovery
- ✓ Apply RMAN tool functionalities
- ✓ Restore an Oracle database following file loss
- ✓ Duplicating an Oracle database
- ✓ Moving an Oracle database

## Intended audience

Oracle database administrators (from 18c to 23ai), application administrators, system administrators, consultants.

## Prerequisites

Basic knowledge of Oracle DBMS administration. Or knowledge equivalent to that provided by the course "Oracle, DBMS administration" (ref. ORC).

## Practical details

**Exercise**
Numerous exercises enable you to put theory into practice.

**Teaching methods**
Active teaching methods that encourage discussion. An alternation of conceptual presentations and practical exercises to anchor what you've learned, whatever your Oracle Database version (18c to 23ai).

## Course schedule

## 1. Oracle DBMS administration reminder

- Redo log, control and data files.
- ARCHIVELOG mode.
- The DBNEWID utility.

### Exercise
Save the control file and change the DB name.

## 2. RMAN: components and functions

- Configuration and controls.
- Automatic backup of the control file.
- Compression, encryption and parallelism of backups.
- Save a CDB and PDB database.
- Incremental backup. Multi-section backups.

### Exercise
Compressed, parallelized DB backup.

## 3. RMAN maintenance

- Catalog and virtual catalog creation.
- Catalog entry.
- Add or remove backups from the catalog.
- Stored scripts and catalog backup.

### Exercise
Catalog creation and DB registration.

## 4. File loss and recovery

- Loss of control files. Restart with missing files.
- Loss of files in UNDO tablespace or read-only tablespace.
- Using RMAN. RESTORE and RECOVER commands.
- Backup and database validation.
- Checks and failure list.

### Exercise
DB restoration after file loss.

## 5. Duplicating an Oracle database

- Duplicate a PDB. Select PDBs.
- Duplicate a DB without stopping it.

### Exercise
Clone a hot DB.

## 6. Incomplete recovery

- Configure and use LogMiner.
- Incomplete recovery of a tablespace or PDB inserted database.
- Restore a base in a previous incarnation.

### Exercise
Find the deletion SCN of a deleted object and recover the object.

## ( 7 ) Flashback Database

- Flashback Database and fast recovery zone backup.
- Flashback to a table deleted in PDB.

**Exercise**

Recovering a user with Flashback Database and a tablespace with RMAN.

## ( 8 ) Moving data

- Data Pump and transport of a tablespace or database.
- Use external tables.
- Transport a database to another OS.

**Exercise**

Transport a tablespace from one DB to another.

# Dates and locations

**REMOTE CLASS**

2026 : 23 Mar., 15 June, 26 Oct.