Course : Oracle Database, backups and restores with RMAN

Versions 23ai to 12c

Practical course - 3d - 21h00 - Ref. RMA

Price : 1740 € E.T.

One of the DBA's priority tasks is to ensure the security of IS data. Oracle has simplified this administrative task with RMAN. This course will enable you to master RMAN tools and advanced functionalities such as the use of a catalog, stored scripts, duplication and cross-platform database transport.

Teaching objectives

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

- Configuring the database in Archivelog mode
- Managing backups with RMAN
- Using command groups with RMAN
- Recovering from file loss

Intended audience

This training course is aimed at anyone who wants to use RMAN to back up their Oracle databases, whatever their version (18c to 23ai).

Prerequisites

Good knowledge of Oracle administration or knowledge equivalent to that provided by the training course "Oracle Database, administration" (ref. ORC). Experience required.

Course schedule

1 Introduction and reminders

- Network configuration. Redo log files.
- Control files. Data files.
- Archivelog mode. The quick recovery zone.

Hands-on work

Base configuration in Archivelog mode. Remote startup.

PARTICIPANTS

This training course is aimed at anyone who wants to use RMAN to back up their Oracle databases, whatever their version (18c to 23ai).

PREREQUISITES

Good knowledge of Oracle administration or knowledge equivalent to that provided by the training course "Oracle Database, administration" (ref. ORC). Experience required.

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.
Participants also complete a placement test before and after the course to measure the skills they've developed.

2 Introduction to RMAN

- Architecture. Client utility. Basics.
- The control file. Memory usage. Fast recovery zone.
- Persistent configuration in the target database control file. Notion of channel and use of channels.

Hands-on work
Control file configuration.

3 Media managers

- Magnetic tapes. Media manager.
- Media Management Library. Tape backup/restore.
- Oracle Secure Backup. User interface.

4 Backup with RMAN

- Cold/hot backup. Image copies vs. backup sets. Backup compression.
- Full/incremental backup. Read-only file processing. Corruption testing.
- Use of command groups. RUN command. SET command.
- Backup tablespaces, files, archived redo log files, control files, SPFILE files...

Hands-on work
Use of BACKUP and RUN commands.

5 Restoration/recovery with RMAN

- RESTORE command. Restore SPFILE file and control file.
- Restore a specific/old backup.
- Restoration with name changes. The RECOVER command.
- Partial/incremental recovery.

Hands-on work
Restore to a new location. Recovery of a database following file losses.

6 RMAN maintenance

- Catalog base. Catalog creation. Register target databases. Add catalog backups.
- Use of stored scripts. Backup of catalog database.
- The LIST command. The REPORT command. Views.
- CROSSCHECK, CHANGE and DELETE commands.

Hands-on work
Catalog creation. Use stored scripts and the LIST and REPORT commands. Checking backups.

7 Advanced features

- Block corruption. TableSpace Point-In-Time Recovery (TSPITR). Database cloning.

Hands-on work
Recovery of corrupted blocks.

Dates and locations

TEACHING AIDS AND TECHNICAL RESOURCES

• The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
• At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
• A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

REMOTE CLASS
2026 : 3 June, 19 Oct.

PARIS LA DÉFENSE
2026 : 3 June, 19 Oct.