

# Oracle Training: Oracle Administration Complete (ORAADMCP, 4 jours)

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## Description

The course Oracle Administration Complete (Oracle Training) is an exploration of Oracle database administration from A to Z. We learn all about Oracle installation, configuration, databases, tablespaces, files & more. The course discusses Oracle enterprise manager, fault tolerance, high availability, security, partitioning, & flashback management. The training also includes a discussion on performance tuning through configuration, PLSQL tuning & database indexing.

## Tarifs

- Tarification: \$3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

## Plan de cours

### Oracle 11g Server Overview

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Learning Objectives  
DBA Roles and Responsibilities  
The Oracle RDBMS  
Oracle Server Product Overview  
Oracle Architecture  
Overview of PL/SQL  
Objectives Covered

### Installing an Oracle 11g Server

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Learning Objectives  
Preparing for an Oracle 11g Installation  
Installing an Oracle 11g Server  
Product Specific Prerequisite Checks  
Database Configuration  
Database Content: Sample Schemas  
Recovery Configuration  
Memory Parameters  
Database Connection Mode  
Security Settings  
Creation Options  
Objectives Covered

### Creating and Configuring Databases

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Learning Objectives  
Oracle Database Server: Core Services  
Tablespaces, Datafiles and Control Files  
Converting Text-based to Server Parameter files  
Overview of Memory Allocation and Memory Targets  
Simplifying Memory Allocation and Memory Targets  
Using the SQL \*PLUS Utility  
Configuring Oracle Databases  
Overview of SYSDBA Privilege  
Authenticating Connections having SYSDBA Privilege

## Automating Database Management

### Objectives Covered

## Administering an Oracle 11g Server

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### Learning Objectives

#### Administering Oracle Databases

#### Using the Oracle Administration Assistant

#### Administering User Roles

#### Overview of Sophisticated Password

#### Authenticating Users with Sophisticated Password Checking

#### Ensuring Database Availability

### Objectives Covered

## Managing Tables and Files

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### Learning Objectives

#### Overview of Profiles

#### Limiting Resources Usage Through Profiles

#### Overview of Read Only Tables

#### Preventing Changes to Read Only Tables

#### Comparing Traditional managed and Oracle Managed Files

#### Configuring Storage Patterns for Database Objects

#### Structuring Data and Index Segments

#### Overview of Extents and Block Occupancy

#### Sizing Database Objects by defining Extents and Block Occupancy

#### Overview of PCTFree and Data Pump

#### Eliminating Row Mitigation with PCTFree and Data Pump

#### Compressing Table Data to Conserve Storage

#### Shrinking Tables and Indexes Online to Regain Space

### Objectives Covered

## Oracle Database Processes and Features

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### Learning Objectives

#### Processing Transactions with the Server

#### Overview of Processes and Memory Structures

#### Identifying types of Oracle 11g Processes and Memory Structures

#### Understanding Database File Structures

#### Archiving the Redo Log

#### Overview of the Result Cache

#### Sizing the Result Cache for Optimizing Repeated Queries

### Objectives Covered

## Oracle 11g Networking

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### Learning Objectives

#### Oracle Net Configuration Assistant

#### Listener Configuration

#### Naming Methods Configuration

#### Local Net Service Configuration

#### Directory Usage Configuration

#### Oracle Net Manager

#### General Tracing Settings

#### Oracle Advanced Security

#### Service Identification

#### Configuring Listeners

#### Naming Methods

Objectives Covered

## Oracle Enterprise Manager

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Learning Objectives

Oracle Enterprise Manager

Database Performance Page

Database Availability Page

Database Server Page

Database Schema Page

Database Data Movement

Database Software and Support

Configuring Enterprise Manager

Configuring Administrators

Oracle Notification Methods

Metalink and Patching Settings

Offline Patching Settings

Linux Server Staging Setup

Blackouts

Management Pack Access

Monitoring Templates

Corrective Actions Library

Data Exchange Hub

Management Services and Repository

Agents

Objectives Covered

## Administering with Database Control

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Learning Objectives

Comparing Command-Line and Graphical Interfaces

Overview of Database Control

Administering with Database Control

Equipping Database Control to Manage Additional Databases

Objectives Covered

## Thresholds and Alerts

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Learning Objectives

Overview of Thresholds and Alerts

Setting Thresholds and Generating Alerts

Verifying Changes in the Data Dictionary

Overview of Privilege Management

Performing Privilege Management

Objectives Covered

## Flashback Management

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Learning Objectives

Performing Flashback Management

Managing Space for Rollback and Read Consistency

Monitoring Expansion of Rollback Segments

Swapping to an alternative Undo Tablespace

Resetting Data to Recent Points in Time with Flashback

Tracking Changes to Data Values with Row History

Overview of Transaction History

Obtaining Transaction History with Flashback Transaction

Overview of Flashback Table

Performing efficient Recovery of Data with Flashback Table

Overview of the Recycle Bin

Retrieving Dropped Tables and Dependent Objects from the Recycle Bin

Objectives Covered

## Partitioning

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Learning Objectives

Overview of Partitioning

Partitioning to Support Administration and Availability

Overview of Table Partitions Recommendations

Creating Table Partitions and Sub-Partitions

Choosing Partitioning Methods - range, list, hash, intervals

Partitioning Tables based on Virtual Columns

Setting up Automatic Partition Allocation

Administering Partitions with merge, split, add and drop

Objectives Covered

## Indexes

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Learning Objectives

Overview of Partition Indexes

Maintaining Partition Indexes

Maximizing Performance with Local and Global Indexes

Monitoring Index Partition Usage

Overview of Unusable Indexes

Rebuilding Unusable Indexes

Objectives Covered