

## Oracle Database 11g: Administration Workshop II Release 2 Self-Study Course

**Duration:** 5 Days

### What you will learn

This Oracle Database 11g: Administration Workshop II Release 2 training takes the database administrator beyond the basic tasks covered in the first workshop. You'll begin by gaining a deep understanding of the most important responsibilities a DBA has: performing backup and recovery. Learn To: Diagnose and repair data failures with Flashback technology. Manage space to optimize database storage so you can respond to growing space requirements. Monitor and manage major database components, including memory, performance and resources. Secure the availability of your database through appropriate backup and recovery strategies. Automate DBA tasks with the Scheduler. Benefits to You Ensure fast, reliable, secure and easy to manage performance. Optimize database workloads, lower IT costs and deliver a higher quality of service by enabling smooth and rapid consolidation within your Datacenter. Backup & Recovery The concepts and architecture that support backup and recovery, along with the steps required to execute it in various ways and situations, are covered in detail. You'll learn how to define and test your own backup and recovery scenarios. Manage Memory Effectively You'll also learn how to manage memory effectively, as well as how to perform some performance evaluation and tuning tasks. Instructors will review all types of flashback technologies, scheduling jobs inside and outside of the database and controlling system resource usage. Course Requirements This course counts towards the Hands-on course requirement for the Oracle Database 11g Administrator Certification. Only instructor-led in class or instructor-led online formats of this course will meet the Certification Hands-on Requirement. Self Study and Knowledge Center courses DO NOT meet the Hands-on Requirement.

### Related Training

#### *Required Prerequisites*

Oracle Database 11g Database Administration

Oracle Database 11g: Administration Workshop I Release 2

#### *Suggested Prerequisites*

Working knowledge of SQL and how to use PL/SQL packages

### Course Objectives

Configure the Oracle Database for optimal recovery

Configure the database instance such that resources are appropriately allocated among sessions and tasks

Schedule jobs to run inside or outside of the database

Use compression to optimize database storage and duplicate a database

Back and recover a database (and its parts) with RMAN (command-line and Enterprise Manager)

Use flashback technology to view past states of data and to revert either objects or the entire database back to a past state

Use an appropriate and flexible memory configuration for your database

Identify burdensome database sessions and poorly performing SQL

## Course Topics

### **Oracle Database 11g Release 2: Database Architecture and Recovery Operations**

Oracle Database Architecture

Backup and Recovery Operations

### **Oracle Database 11g Release 2: The RMAN Catalog and Creating Backups**

The RMAN Recovery Catalog

Creating Backups with RMAN

### **Oracle Database 11g Release 2: Performing Restore and Recovery Tasks**

Restore and Recovery Tasks

Performing User-Managed Backup and Recovery

### **Oracle Database 11g Release 2: Using, Monitoring and Tuning RMAN**

Using RMAN to Perform Recovery

Monitoring and Tuning RMAN

### **Oracle Database 11g Release 2: Database Diagnostics and Flashback Technologies**

Diagnosing the Oracle Database

Flashback Technologies

### **Oracle Database 11g Release 2: Managing Database Memory and Performance**

Managing Memory

Managing Database Performance

### **Oracle Database 11g Release 2: Managing Database Resources and the Scheduler**

Managing Resources

Task Automation and Administration

## **Oracle Database 11g Release 2: Managing Database Space and Duplication**

Oracle Database 11g Release 2: Managing Database Space and Duplication

Duplicate Databases