

## **Oracle9i Database: Advanced Backup and Recovery Using RMAN**

**Duration** 3 Days

### **What you will learn:**

In this course participants learn about Recovery Manager and use it to perform backup, restore, and recovery operations. In addition, students will learn how to troubleshoot RMAN and related components, the media manager, and operating system errors related to RMAN backup and recovery operations.

This course counts towards the Hands-on course requirement for the Oracle Application Server 10g Administrator Certification. Only instructor-led inclass or instructor-led online formats of this course will meet the Certification Hands-on Requirement. Self Study CD-Rom and Knowledge Center courses are excellent study and reference tools but DO NOT meet the Hands-on Requirement for certification.

### **Audience:**

- Database Administrators

### **Prerequisites:**

#### **Required Prerequisites:**

- [Oracle9i Database Administration Fundamentals I](#)
- [Oracle9i Database Administration Fundamentals II](#)

### **Course Objectives:**

- Learn how to use the list and report commands
- Learn the relationships between Oracle and the Media Manager
- Learn the fundamental architecture and components of Recovery Manager
- Discuss performance issues and problems
- Analyze and troubleshoot media manager errors
- Demonstrate how to use Recovery Manager through labs and workshop
- Analyze and troubleshoot RMAN operations
- Learn the features and tasks of Recovery Manager
- Learn how to configure the Recovery Manager utility
- Learn how to perform backups, restores and recoveries using Recovery Manager

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## **Course Topics:**

### **Recovery Manager Overview**

- What is Recovery Manager
- Recovery Manager components
- Recovery Manager utility
- Recovery Catalog
- Target database
- Channels and Media Manager Server

### **Configuring Recovery Manager**

- Deciding to use a Recovery Catalog
- Creating the Recovery Catalog
- Using a Recovery Catalog
- Catalog maintenance commands
- Running Recovery Manager commands
- Recovery catalog compatibility
- Upgrading Recovery Catalog
- Dropping the Recovery Catalog

### **Backups using Recovery Manager**

- Recovery Manager backups
- Backup sets
- Backup algorithm
- Regular backup data flow
- Proxy backup data flow
- Duplexed backups
- Cumulative Incremental Backups

### **Restore and Recovery**

- Restore concepts
- Restore algorithm
- Restore AUTOLOCATE feature
- Parallelization of restore
- Recovery concepts
- Parallelization of recovery
- Tablespace recovery
- Point-In-Time recovery

### **List and Report Commands**

- List command

- Report command

## **Using Recovery Manager with a Media Manager**

- Backups to disk
- Backups to tape
- Media management interface
- Default SBT interface
- Linking with a Media Manager
- Architecture for MML integrated with Oracle
- Backup and restore operations using a Media Manager
- Media Manager crosschecks

## **Debugging Recovery Manager**

- Identifying types of message output
- The DEBUG option
- RMAN error stack with RMAN error
- RMAN error stack with Media Manager error
- RMAN error stack with server error
- SBTTST
- Monitoring Recovery Manager jobs

## **Recovery Manager Performance Issues**

- Performance rules
- Multiplexing issues
- Proper implementation of parallelization
- Performance monitoring
- Bottlenecks with Synchronous and Asynchronous I/O