

## Oracle Database 11g: Oracle Certified Master Upgrade (OCM)

**Duration:** 1 Day

### What you will learn

An Oracle Certified Master is a top-level Oracle expert who has in depth technical knowledge of the Oracle data server and industry experience managing mission critical Oracle database systems and applications. An OCM is looked upon as an expert within their organization, amongst their peers and across the industry. The OCM exam is conducted at designated Oracle University facilities in each global region.

### Prerequisites for Registration

Before registering for the 11g Upgrade OCM, you must do the following:

Earn your Oracle9i Database or Oracle Database 10g Administrator Certified Master (OCM) credential

OCM participants complete a series of skill-sets and resolve technical and failure problems within an Oracle 11g environment. Visit the Oracle Certification Program website to view all the details about the OCM exam, including the minimum recommended skills.

<http://www.oracle.com/education/certification> Skill-sets are timed and require a high degree of Oracle database knowledge to successfully complete them. It is highly recommended that participants have a minimum of 3 – 4 years of Oracle database administrator experience. Oracle Testing ID

You must provide your 9-character Oracle Testing ID to initiate the OCM exam. The Oracle Testing ID is the unique identifier associated with your Oracle exam history at Prometric and Pearson Vue. We strongly recommend that OCM candidates locate their Oracle Testing ID at least one week prior to their exam date. To set up a web account with Pearson Vue and confirm an Oracle Testing ID, visit <http://www.pearsonvue.com/oracle>. Follow these instructions to obtain your Oracle ID.

Oracle Database Certified Master (OCM) Exams are now being scheduled in convenient regional delivery centers: Bangalore, India; Beijing and Shanghai, China; Seoul, Korea; Reading, England; HQ and Reston, VA in the US. View the worldwide schedule to select your preferred event.

### Audience

Database Administrators  
Technical Consultant

### Related Training

#### *Required Prerequisites*

Advanced knowledge and use of Oracle Enterprise Server technology and features

Proficiency in Oracle 11g SQL

Working knowledge of LINUX commands

## Course Objectives

To test the participants with a series of skill sets and determine their ability to resolve technical problems within a live Oracle 11g database environment

## Course Topics

### Database, RMAN, EM and Network Configuration

Configure server-side network, Configure client-side network  
Create and Manage encrypted tablespaces  
Create and Manage a tablespace that uses NFS mounted file system file  
Set up ADR file based repository, Perform cold database backup  
Manage user accounts and use case sensitive passwords, Use OPatch to install a patch  
Install and configure EM Agent, Create Base Recovery Catalog, Configure RMAN  
Perform multisection backup of a datafile  
Create an Archival Backup

### Data Guard

Create Physical Standby Database with real-time apply  
Configure the data guard environment to reduce overheads of fast incremental backups on the primary database  
Configure the Observer  
Switchover and switch back  
Convert the standby to a snapshot standby  
Configure archivelog deletion policy for the dataguard configuration

### Data and Data Warehouse Management

Troubleshoot fast materialized views to fast refresh and query rewrite  
Add a tablespace by using Transportable Tablespace Feature of Data Pump Import (cross platform transportable tablespaces)  
Configure a schema to support a star transformation query  
Configure and use parallel execution for queries  
Use and access SecureFile LOBS  
Create partitioned tables (includes reference and interval partitioning)  
Configure Flashback Data Archive  
Use Oracle Streams to capture and propagate changes in a table

### Performance Management

Set up and configure Resource Manager to control active sessions, number of I/Os, execution time..etc  
Use Result Cache, Use multi column statistics  
Gather statistics on a specific table without invalidating cursors  
Use partitioned indexes  
Use SQL Tuning Advisor, Use SQL Access Advisor  
Configure baseline templates  
Use SQL Plan Management feature  
Replay a captured workload