

2 Days

## Oracle Database 12c Certified Master Exam (OCM)

The Oracle Certified Master 12c Exam (OCM) is the most advanced Database Administrator credential that validates proven ability of a professional to perform database administration. This 12c OCM exam is based on Oracle Database 12c Release 1 (12.1.0.2.0 - 64-bit) and includes the use of Oracle Real Application Clusters (Oracle RAC). The operating system here used is Oracle Linux Server Release 6.5 (64-bit).

### Oracle Certified Master 12C Credential Requirements

Obtaining the Oracle Certified Master credential requires a candidate to pass an onsite practical exam that is conducted at designated Oracle University facilities in each global region. A candidate will be tested on his/her competency to perform database administration tasks in a live database environment. As this is the highest credential exam, the skill sets are for the same are timed as well as require a high degree of Oracle database mastery to successfully complete them.

Before Registering for the Oracle 12c OCM exam the candidate must have/be:

- Completed PRIOR CERTIFICATION - Oracle Database 12c Administrator Certified Professional (OCP).
- Completed 2 of the advanced or specialty courses to meet the hands-on course requirements.
- Gained considerable hands-on expertise fulfilling all of the exam objectives.
- Familiar with the basic Linux command language.

## Course Details

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### Course Outline

#### 1. General Database and Network Administration

- Creating and managing pluggable databases
- Administering users, roles, and privileges
- Configuring the network environment to allow connections to multiple databases
- Administering database configuration files
- Configuring shared server
- Managing network file directories

#### 2. Manage Database Availability

- Installing the EM Cloud Control agent
- Configuring recovery catalog
- Configuring RMAN
- Performing a full database backup
- Configuring and monitoring Flashback Database

#### 3. Data Warehouse Management

- Managing database links
- Managing a fast refreshable materialized view
- Creating a plug-in tablespace by using the transportable tablespace feature
- Optimizing star queries
- Configuring parallel execution
- Applying a Patch
- Configuring Automatic Data Optimization, In-Row Archiving, and Temporal Validity

- Managing external tables

#### 4. Data Management

- Managing additional buffer cache
- Optimizing space usage for the LOB data
- Managing an encrypted tablespace
- Managing schema data
- Managing partitioned tables
- Setting up Fine-Grained Auditing
- Configuring the database to retrieve all previous versions of the table rows

#### 5. Performance Management

- Configuring the Resource Manager
- Tuning SQL statements
- Using real application testing
- Managing SQL Plan Baselines
- Capturing performance statistics
- Tuning an instance - Configure and manage result cache, Control CPU use for Oracle Instances
- Managing extended statistics
- Creating and managing partitioned indexes

#### 6. Data Guard

- Administering a Data Guard environment
- Creating a physical standby database
- Configuring a standby database for testing
- Configuring a standby database to apply redo
- Configuring a standby database to use for reporting
- Configuring fast-start failover
- Managing extended statistics
- Managing DDL in a Data Guard environment

#### 7. Grid Infrastructure

- Installing Oracle Grid Infrastructure
- Creating ASM Disk Groups
- Creating and managing ASM instances
- Configuring ASM Cloud File System (ACFS)
- Administering Oracle Clusterware
- Managing Flex Clusters and Flex ASM
- Managing Flex Clusters and Flex ASM

#### 8. Real Application Cluster Database

- Installing Oracle Database software
- Creating a Real Application Clusters (RAC) database
- Configuring Database Services
- Administering Oracle RAC databases on one or more cluster nodes

## Who Should Attend

The Oracle Certified Master 12c Exam is for:

- Database administrator
- Support engineer
- Technical Consultant

## Pre Requisite

**Required:**

- Candidate must possess a minimum of 3 – 4 years of Oracle database administrator experience.
- Should have completed 2 of the Advanced or Specialty courses to meet the Hands On Course Requirements.
- Every candidate should have their 9-character Oracle Testing ID to initiate the OCM exam.
- Complete PRIOR CERTIFICATION -Oracle Database 12c Administrator Certified Professional (OCP)

**Suggested Prerequisites:**

- Advanced knowledge and use of Oracle Enterprise Server
- Familiarity navigating through online Oracle documentation
- Proficient in using Mozilla browser software
- Proficient in SQL

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