Over 35 Years Of Technology Training

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Learning Style: Virtual Classroom

Technology: Oracle

Difficulty: Advanced

Course Duration: 2 Days

Next Course Date: April 15, 2026

Oracle DBA Mastery: Advanced Administration & Recovery (TTOR20530)

About This Course:

This advanced boot camp guides you through Oracle Database Administration II (1Z0-083) topics. You will master multitenant architecture, backup/recovery

strategies, patching/upgrading, performance tuning, RMAN, and diagnostics. You will work in hands-on labs with real Oracle environments. After the course you will be able to manage CDBs/PDBs, perform recovery, apply patches, troubleshoot RMAN, and optimize performance.

Course Objectives:

- Configure, manage, clone, and plug/unplug CDBs and PDBs
- Control resource usage and connectivity in a multitenant environment
- Plan and execute backups, restores, and flashback strategies using RMAN
- Duplicate databases, transport data, and patch the Oracle infrastructure
- Perform upgrades and manage Grid Infrastructure / Oracle Restart
- Diagnose failures, tune RMAN, use AWR/ADDM, and optimize SQL performance

Audience:

- Senior DBAs
- Architects managing multitenant deployments

Prerequisites:

- Strong Oracle DBA I experience
- Familiarity with SQL and OS administration

Course Outline:

1) Multitenant Architecture & CDB / PDB Management

- Concepts: CDBs, PDBs, application containers, root, seed
- Creating CDBs and PDBs (from seed, cloning)
- Plugging/unplugging PDBs, relocating, cloning

- PDB service names, initialization parameters
- Resource Manager for CDBs / PDBs, resource plans

Lab

- Create a CDB, seed PDB, new PDB from seed
- Clone a PDB, unplug and plug it to another container
- Configure PDB service names
- Use Resource Manager to limit CPU or memory to PDBs

2) Security & Policy in Multitenant Environments

- Managing security in CDB and PDB layers
- PDB lockdown profiles
- Audit configuration across containers
- Policies in application containers

Lab

- Apply a lockdown profile to a PDB
- Set up audits (login, DDL) at container scope
- Create and apply container policies

3) Backup, Recovery & Flashback

- RMAN fundamentals (full, incremental, cumulative)
- Backup strategies: compression, encryption, multiplexing
- Flashback features: DB flashback, PDB flashback
- Recovery scenarios: complete, point-in-time, media failure

Lab

- Configure RMAN backups, test restores

- Use flashback to undo data corruption
- Recover a PDB and a CDB after failure

4) Database Duplication & Data Transport

- Duplicate databases and PDBs (RMAN duplicate)
- Transportable tablespaces and transportable PDBs
- Data movement across platforms

Lab

- Duplicate a live PDB or CDB using RMAN
- Transport a tablespace or PDB to a different container or host

5) Upgrades, Patching & Grid Infrastructure

- Oracle software installation and patching strategies
- Upgrading CDB/PDBs (manual and automatic)
- Oracle Grid Infrastructure, Oracle Restart
- Rolling upgrades in multitenant

Lab

- Patch Oracle software and apply DB PSU
- Upgrade a database version within multitenant
- Configure Oracle Restart and verify auto start

6) Performance Monitoring & RMAN Tuning

- AWR, ADDM, advisory framework
- Wait events, metrics, threshold alerts
- SQL tuning: optimizer, statistics, SQL Tuning Advisor
- RMAN message interpretation and tuning

Lab

- Run AWR reports, analyze top wait events
- Use SQL Tuning Advisor on a sample SQL
- Capture RMAN logs, diagnose performance bottlenecks

7) Diagnostics, Failure Analysis & Wrap-Up

- Common failure scenarios and diagnostic methods
- Data block corruption detection and repair
- Using DBVERIFY, RMAN validate, block recovery
- Exam review, integrated workflows

Lab

- Intentionally corrupt a block and repair
- Use RMAN VALIDATE, recovery catalog validation
- Complete an end-to-end exercise: setup CDB/PDB, backup, failure, recovery, tuning