

Oracle GoldenGate 19c: Troubleshooting and Tuning

Course Duration: 32 Hours

Course Code: OGGT19c-TT

1. Course Overview

The *Oracle GoldenGate 19c: Troubleshooting and Tuning* course is designed to help participants gain the expertise needed to diagnose, resolve, and optimize Oracle GoldenGate environments. The course focuses on performance tuning strategies, troubleshooting methodologies, and advanced techniques to ensure reliable, efficient, and high-performing replication. Through real-world examples and hands-on exercises, learners will develop the confidence to maintain robust data replication solutions in enterprise environments.

2. What You'll Learn?

- Understand the GoldenGate architecture for troubleshooting.
- Identify and resolve common issues in replication processes.
- Use monitoring tools and diagnostic utilities to detect problems.
- Implement performance tuning techniques for optimal replication.
- Analyze trail files and error logs for troubleshooting.
- Optimize parameter files and system configurations.
- Apply best practices for high availability and fault tolerance.

3. Target Audience

This course is ideal for:

- Database Administrators (DBAs)
- Technical Consultants
- Support Engineers
- System Administrators
- Professionals responsible for Oracle GoldenGate configuration, tuning, and maintenance

4. Pre-Requisites

Participants should have:

- Basic knowledge of Oracle GoldenGate 19c fundamentals
- Experience with Oracle Database administration
- Familiarity with SQL and database concepts
- Completion of *Oracle GoldenGate 19c: Fundamentals* course is recommended

5. Course Content

Module 1: Introduction to Troubleshooting

- Troubleshooting methodology
- Understanding GoldenGate processes and architecture

Module 2: Analyzing Errors and Logs

- Interpreting error messages
- Working with report and discard files
- Common error scenarios

Module 3: Diagnostics and Monitoring Tools

- GGSCI commands for troubleshooting

- Using GoldenGate monitoring utilities
- Detecting bottlenecks

Module 4: Tuning Extract and Replicat

- Performance tuning of Extract processes
- Optimizing Replicat processes
- Checkpoint and memory optimization

Module 5: Parameter Tuning and Best Practices

- Optimizing parameter files
- Parallelism and performance enhancement
- GoldenGate best practices

Module 6: Advanced Troubleshooting Techniques

- Network-related troubleshooting
- Handling large data volumes and latency issues
- Resolving replication lag problems

Module 7: High Availability and Failover

- GoldenGate fault tolerance
- Handling process restarts
- Ensuring replication continuity