

# Course Outline of Oracle GoldenGate 12c: Fundamentals for Oracle

- **Technology Overview**

- Creating Oracle GoldenGate Topologies
- Reviewing Oracle GoldenGate Use Cases
- Assembling Building Blocks
- Listing Supported OS
- Listing Supported Databases
- Listing the Oracle GoldenGate Product Line
- Describing GUI Management Options
- Listing Non-Database Sources and Targets

- **Oracle GoldenGate Architecture**

- Describing Oracle GoldenGate Process Groups
- Explaining Change Capture and Delivery (with and without a Data Pump)
- Explaining Initial Data Load
- Contrasting Batch and Online Operation
- Explaining Oracle GoldenGate Checkpointing
- Describing Commit Sequence Numbers (CSN)
- Describing Oracle GoldenGate Files and Directories

- **Installing Oracle GoldenGate**

- Listing System Requirements
- Performing Installation
- Configuring Environment Variables
- Using GGSCI
- Running Oracle GoldenGate from the OS shell.

- **Configuration Overview and Preparing the Environment**

- Reviewing Configuration Overview
- Configuring Manager Process
- Creating Source Definitions
- Preparing the Source Database
- Assigning Oracle Database Roles/Privileges Required
- Using DBMS\_GOLDENGATE\_AUTH Package

- **Configuring Change Capture (Extract)**
  - Reviewing Extract Overview
  - Accessing Logs on Oracle ASM
  - Accessing Logs Remotely
  - Configuring Extract Tasks
  - Adding Extract Group
  - Editing Extract Parameters
  - Extracting Use of Archived Transaction Logs
  - Adding Trails
  
- **Configuring Change Delivery (Replicat)**
  - Reviewing Replicat Overview
  - Configuring Replicat Tasks
  - Configuring a Sample Environment
  - Configuring New Integrated Replicat
  
- **Configuring Extract Trails and Files (Data Pump)**
  - Reviewing Extract Trails and Files Overview
  - Describing Trail Formats
  - Using Logdump for Viewing Trails
  - Reversing the Trail Sequence
  - Configuring and Using Data Pumps
  
- **Performing Initial Load**
  - Oracle GoldenGate Methods
  - Listing Database-specific Methods
  - Describing Resource Limitations
  - Listing Advantages of Oracle GoldenGate Methods
  - Configuring File Load Methods
  - Configuring Direct Load Methods
  - Handling Collisions with Initial Load
  
- **Editing Configuration Parameters**
  - Filtering and Data Selection
  - Additional Transformation Concepts
  
- **Configuration Options**
  - Bidirectional Replication
  - DDL Replication