

## **Oracle Data Integrator Admin&Dev Course Content:35-40hours**

### Course Outline

#### **Introduction**

- Identifying the Course Units
- What is Oracle Data Integrator?
- Why Oracle Data Integrator?
- Overview of ODI 10g Architecture
- Overview of ODI 10g Components
- About Graphical Modules
- Types of ODI Agents
- Overview of Oracle Data Integrator Repositories

#### **Administering ODI Repositories and Agents**

- Administrating the ODI Repositories
- Creating Repository Storage Spaces
- Creating and Connecting to the Master Repository
- Creating and Connecting to the WorkRepository
- Managing ODI Agents
- Creating a Physical Agent
- Launching a Listener, Scheduler and Web Agent
- Example of Load Balancing

#### **ODI Topology Concepts**

- Overview of ODI Topology
- About Data Servers and Physical Schemas
- Defining the Physical Architecture
- Defining the Logical Architecture
- Mapping Logical and Physical Resources
- Defining Agents
- Defining a Topology
- Planning the Topology

## Describing the Physical and Logical Architecture

- Overview of Topology Manager
- Creating Physical Architecture
- Creating a Data Server
- Testing a Data Server Connection
- Creating a Physical Schema
- Creating Logical Architecture
- Overview of Logical Architecture and Context Views
- Linking the Logical and Physical Architecture

## Setting Up a New ODI Project

- Overview of ODI Projects
- Creating a New Project
- Using Folders
- Organizing Projects and Folders
- Understanding Knowledge Modules
- Exchanging ODI Objects
- Exporting and Importing Objects
- Using Markers

## Oracle Data Integrator Model Concepts

- What is a Model?
- Understanding Metadata in ODI
- Understanding Reverse Engineering
- Creating Models
- Organizing Models
- Creating Datastores
- Using Constraints in ODI
- Creating Keys and References

## Organizing ODI Models and Creating Datastores

- What is an Interface?
- Business Rules for Interfaces
- What is a Mapping?
- What is a Join?
- What is a Filter?
- What is a Constraint?
- What is a Staging Area?
- Creating a Basic Interface

## ODI Interface Concepts

- What is an Interface?
- Business Rules for Interfaces
- What is a Mapping, Filter, Join?
- Overview of Integration Process
- What is a Staging Area?
- About Execution Location
- Using Knowledge Modules (KM) with ODI Interface
- Creating a Basic Interface

## Designing Interfaces

- Designing an Interface
- Multiple Source Datastores
- Creating Joins
- Filtering data
- Disabling Transformations
- Overview of the Flow
- Specifying the Staging Area
- Selecting Knowledge Modules

## Interfaces: Monitoring and Debugging

- Monitoring Interfaces
- Using Operator
- Viewing Sessions and Tasks
- How to Monitor Execution of an Interface
- How to Troubleshoot a Session
- Keys to Reviewing the Generated Code
- Working with Errors
- Tips for Preventing Errors

## Designing Interfaces: Advanced Topics

- Using Business Rules in Interfaces
- Overview of Business Rule Elements
- Using variables
- Using User Functions
- Using Substitution Methods
- Modifying a KM
- Developing Your Own KM
- Using RKM for Customized Reverse Engineering

### Using ODI procedures

- What is a Procedure?
- Examples of Procedures
- Creating Procedures
- Adding Commands
- Adding Options
- Running a Procedure
- Using Operator to View Results

### Using ODI Packages

- What is a package?
- Creating a package
- Executing a package
- Creating Advanced Packages
- Error handling
- Controlling an Execution Path
- Creating a Loop
- Using the Advanced tab

### Managing ODI Scenarios and Versions

- What is a Scenario?
- Managing Scenarios
- Preparing Scenarios for Deployment
- Automating Scenario Management
- Scheduling the ODI Scenario
- Overview of ODI version management
- Using Version Browser and Version Comparison Tool
- Handling concurrent changes

### Enforcing Data Quality and Auditing Data with ODI

- Why Data Quality?
- When to Enforce Data Quality?
- Data Quality in Source Applications
- Data Quality Control in the Integration Process
- Data Quality in the Target Applications
- Enforcing Data Quality
- Exploring Your Data
- Auditing Data Quality

### **Working with Changed Data Capture**

- Overview of ODI version management
- Techniques of Changed Data Capture
- Changed Data Capture in ODI
- CDC Strategies and Infrastructure
- CDC Consistency
- Using CDC
- Viewing Data/Changed data
- Using Journalizing

### **Administering ODI Resources: Advanced Topics**

- Using Open Tools
- Installing Open Tools
- Using Open Tools in a Package
- Using Open Tools in a Procedure or in a KM
- Developing Your Own Open Tools
- Setting Up ODI Security
- Defining Security Policies
- Defining Password Policies

### **Using Web Services and Integration of Oracle Data Integrator with SOA**

- Web Services in Action
- Using Data Services
- Setting Up Data Services
- Testing Data Services
- Installing Public Web Services
- Using Public Web Services
- Invoking Web Services
- Integrating ODI with SOA