

# Oracle Data Integrator 12c: Integration and Administration Ed 3 Course

**Course Duration: 40 Hrs.**

**Course code: ODI12c-IAE3**

## Course Overview

The Oracle Data Integrator 12c: Integration and Administration Ed 3 course is designed to provide a comprehensive understanding of Oracle Data Integrator (ODI) for building, managing, and optimizing data integration solutions. Participants will gain in-depth knowledge of ODI 12c architecture, integration processes, repositories, security, and advanced administration techniques. The course emphasizes both integration design and administrative responsibilities to ensure a complete skill set for enterprise data integration projects.

## What You'll Learn?

- Understand ODI 12c architecture, components, and repositories.
- Build and manage ODI interfaces, mappings, and packages.
- Implement data integration processes for heterogeneous systems.
- Perform advanced transformations and performance tuning.
- Manage and secure ODI repositories and agents.
- Troubleshoot, monitor, and optimize data integration processes.
- Use ODI Console, ODI Studio, and Enterprise Manager for administration.
- Implement best practices for ODI deployment in production environments.

## Target Audience

- Data Integration Developers

- Data Warehouse Developers
- Database Administrators (DBAs)
- ETL Architects
- System Administrators
- Technical Consultants and IT Professionals involved in enterprise integration projects

## Pre-Requisites

- Basic knowledge of SQL and relational databases.
- Familiarity with data warehousing concepts.
- Prior exposure to ETL tools or Oracle Database concepts is recommended.

## Course Content

### Module 1: Introduction to Oracle Data Integrator 12c

- Overview of ODI architecture and components
- ODI repositories and agents
- Key features and benefits

### Module 2: ODI Repositories and Administration

- Creating and managing master and work repositories
- Repository security and access control
- Topology setup

### Module 3: ODI Studio and Development Concepts

- ODI Studio navigation and interfaces
- Understanding ODI Designer and Operator
- Projects, folders, and scenarios

### Module 4: Building Data Integration Processes

- Creating models and data stores
- Mappings, packages, and procedures
- Data flow and control flow concepts

### **Module 5: Advanced ODI Development**

- Reusable components and variables
- User functions and knowledge modules (KM)
- Handling complex transformations

### **Module 6: ODI Administration and Security**

- User roles and privileges
- ODI Console and Enterprise Manager integration
- Scheduling and agent management

### **Module 7: ODI Deployment and Best Practices**

- Export/import of ODI objects
- Versioning and lifecycle management
- Deployment strategies and best practices

### **Module 8: Monitoring and Troubleshooting ODI**

- Operator for monitoring executions
- Error handling and recovery mechanisms
- Performance tuning techniques