

Course Contents: Oracle Identity Manager 11g R2 PS3 Development

Course Duration - Around 30+ Hours

- **Before you start:**
 1. [Oracle Identity Manager 11gR2 PS3 \(11.1.2.3\) Administrative course](#) is a pre-requisite or foundation for the [OIM 11.1.2.3 Development Course](#).
 2. Trainee must have sound understanding of all OIM administrative features, as the understanding of the product is essential for OIM development and customization, to achieve custom business requirements.
 3. We cover each and every aspect of OIM development, with all latest PS3 features in a **100% practical, use case oriented manner**.
 4. Each topic will be presented with one or two use cases max, with optional assignment of further case studies and tasks.
 5. Life time access to all course videos and developed source codes – For contents, [click here](#).
 6. As OIM development is vast and requires consistent learning over a time, having a developer mind-set and interest in coding is essential.
 7. Having Core Java or ADF or SOA Development or PL/SQL skill is good to have but not critical to learn the OIM development.

Tools and Technologies:

- **IDE:** Jdeveloper 11.1.1.7 and 11.1.2.3, **Target:** OIM 11.1.2.3, SOA 11.1.1.9, BI Publisher 11.1.1.9
- **Development involves:**
 - ◆ Explore Oracle Identity Manager development tools
 - ◆ Core Java for Core OIM development – OIM Client & APIs, Adapters, Event Handlers, Scheduled Tasks etc.
 - ◆ SOA Development for Workflows
 - ◆ ADF for Advanced UI Customization
 - ◆ BI Publisher Report Development and Customization (PL/SQL)
 - ◆ Development of GTC Based Connector.
 - ◆ Development of **ICF Based Connector**

Contents:

1. UI Customization

- Custom ADF Task Flow in OIM self Service Application, with practical demonstration.
- Customizing Pages at Run Time: Using Expression Language
- Customizing Pages at Run Time: Showing or Hiding Components, changing logos and styles.

2. Workflow Development

- Configure Oracle SOA Suite Universal Message Service (UMS) for email notification
- Creating workflow templates

- New Workflow Development
- Modification of existing workflows
- Extending workflow template – working with BPEL, HumanTask and WebServices
- Email Configuration and testing
- Making workflow dynamic using ReqSvc webservice or Dynamic Routing.
- Defining Sequential Participants/parallel Approvers
- Configuring Notification, Expiration and Escalation Settings.

3. GTC Based Connector development

- Developing GTC Connector for trusted reconciliation using a CSV file
- Working on Matching Rules and Reconciliation Rules
- Testing trusted reconciliation

4. Audit Report Development

- Customizing existing BI Publisher Audit Report by adding/removing new parameters or list of value parameters
- Develop a new custom OIM/SOA BI Publisher report from scratch with data model
- Remove unwanted reports or report category

5. Working with OIM API

- Developing Clients for Oracle Identity Manager
- Understanding and making use of User Management, Role & organization Management APIs.

6. Scheduled Task & Plugin Development

- Create a scheduled task
- Define metadata for a scheduled task
- Configure the XML file for a scheduled task
- Develop a Java class for a scheduled task
- Create the directory structure for a registering a scheduled task as a plug-in
- Register the scheduled task as a plug-in
- Create Scheduled Task Jobs

7. Event Handler & Plugin Development

- Compare plug-ins, plug-in points, and the plug-in framework
- Describe how plug-ins are used to implement event handlers
- Develop and run plug-ins
- Understand Entity, Orchestration operations, Stages and parameters
- Discuss operations, user management operations, event handlers
- Explain how event handlers can extend user management operations
- Develop and run event handlers

8. Registering/Unregistering Scheduled Tasks and Event Handlers metadata using MBean

9. Working with Adapters

- Types of Adapters
- Creating a Pre-Populate, Process Task Adapter
- Creating Adapter Java Functional Task
- Creating Adapter Variables for Java Tasks
- Mapping Method Parameters to Variables
- Creating an Adapter Logic Task
- Attaching Pre-Populate Adapters to Form Fields
- Creating Custom lookups

10. ICF Based Connector Development

- Discuss the Identity Connector Framework (ICF)
- Identify ICF providers
- Start and configure JDeveloper Connections
- Create JDeveloper workspaces and Java projects configured with Connector SPI libraries
- Build and develop a custom ICF connector for the database
- Install the custom ICF connector
- Work with the Design Console
- Create Resource Objects and IT Resources needed for the custom ICF connector
- Create application instances and associated metadata (IT resource type, IT resource, and resource object)

11. Creating UDFs of different types for Users, Roles, and Organization etc.

12. Migration of Custom Codes from one environment to another environment (Dev to Test, Test to Prod)

13. Connector Cloning