

## O143 - Oracle 10g Portal with PLSQL Portlets

### Course Objectives

This course has been designed to follow-on from the iTrain 10gAS Portal Management course.

The course introduces the integrated PL/SQL portlet development environment and covers all the practical skills involved with the design, development and deployment of PL/SQL based portlets through the Oracle Portlet toolkit.

A practical hands-on course, students will learn the full range of capabilities and skills within the Oracle Portal environment needed to manage and deploy enterprise wide PL/SQL based applications.

Who Should Attend	Prerequisites	Duration
Web Page Developers Web Masters Web Designers Web Technicians Web Support Engineers Network Engineers Oracle Developers Oracle Analyst/Programmers	Internet Fundamentals Oracle PL/SQL Oracle 10gAS (recommended)	2 Days

### Course Contents

#### Introduction to Oracle 10gAS Portal

Oracle 10gAS Portal architecture  
 Oracle 10gAS Portal framework  
 What is a portlet provider?  
 Portlets and Providers  
 Development Choices  
 Oracle 10gAS Portal Developer Kit  
 The PDK-PL/SQL Deployment Environment

#### Organizing and Coding

Database Providers and Portlets  
 Identifying framework events  
 Registering and Deregistering a Provider  
 Specifying Portlet Information  
 Adding a portlet to a portal page  
 Rendering a portlet  
 Removing a portlet from a portal page  
 Creating and managing database providers

#### Organizing and Coding

Database Portlets

Organizing database portlets in PL/SQL packages  
 Identifying the portlet methods  
 Identifying portlet show modes  
 Coding portlet show modes  
 Generating provider and portlet PL/SQL packages

#### Passing Parameters to Portlets

Specifying portlet parameters in the URL  
 Specifying multiple parameter values  
 Scoping portlet parameters  
 Retrieving parameter names and values  
 Portlet Caching  
 Caching explained  
 Portlet caching concepts  
 Expiry-based caching  
 Invalidation-based caching  
 Validation-based caching

#### Accessing Portal Session Information

Session Storage  
 Accessing session storage objects  
 Loading session objects

Saving and dropping session objects  
 Session security and visibility  
 Session context service and API

#### Customizing Portlets

Organizing portlet preferences  
 Accessing preference storage  
 Creating and deleting preference paths and preference names  
 Maintaining preference values  
 Implementing portlet customization  
 Preference Storage Utilities

#### Handling Errors

The error stack  
 Adding error messages to the error stack  
 Managing the error stack  
 Displaying error messages in full screen or inline  
 Raising exceptions

#### Providing Portlet Security

Web-based authentication  
 Implementing lightweight users  
 Providing secure access to portal resources



## COURSE OVERVIEWS

Managing users and groups  
Portal privileges and Access  
Control List (ACL).  
Managing application privileges  
Implementing security services

**Multilingual Portlets**  
Using NLS String storage  
Language & territory mappings  
Session based language  
settings  
Implementing NLS Strings in  
portlet messages