

## O243 - Oracle 9i Portal with PLSQL Portlets

### Course Objectives

This course has been designed to follow-on from the iTrain 9iAS Portal Developer 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 9iAS (recommended)	2 Days

### Course Contents

#### Introduction to Oracle9iAS Portal

Oracle9iAS Portal architecture  
 Oracle9iAS Portal framework  
 What is a portlet provider?  
 Portlets and Providers  
 Development Choices  
 Oracle9iAS 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

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