

## Oracle Application Express Workshop II Ed 2

**Course Duration: 24 Hours**

**Course Code: D94890GC20**

### 1. Course Overview

The *Oracle Application Express (APEX) Workshop II Ed 2* course is designed for developers who already have basic APEX knowledge and want to advance their skills in building scalable, secure, and feature-rich web applications. This workshop provides in-depth training on advanced APEX concepts, best practices, and techniques to develop enterprise-grade applications.

### 2. What You'll Learn?

By the end of this course, participants will be able to:

- Design and develop advanced APEX applications with improved functionality and performance.
- Implement security features to safeguard applications.
- Optimize applications for better usability and maintainability.
- Use dynamic actions, plug-ins, and advanced components effectively.
- Manage application deployment and lifecycle in APEX.
- Integrate APEX applications with external services and data sources.

### 3. Target Audience

This course is ideal for:

- Application Developers

- PL/SQL Developers
- Database Administrators (DBAs)
- IT Professionals working on Oracle technologies
- Professionals aiming to enhance their Oracle APEX development skills

## 4. Pre-Requisites

To get the most out of this workshop, participants should have:

- Basic understanding of Oracle APEX (preferably completion of APEX Workshop I)
- Knowledge of SQL and PL/SQL
- Familiarity with relational database concepts

## 5. Course Content

### **Module 1: Advanced APEX Architecture**

- APEX Engine Overview
- Application Lifecycle Management
- Workspace & Application Administration

### **Module 2: Advanced Components & Dynamic Actions**

- Implementing Interactive Reports & Grids
- Advanced Charting & Dashboards
- Creating and Using Dynamic Actions
- Managing Custom Events

### **Module 3: Security in APEX Applications**

- Authentication & Authorization Schemes
- Session State Protection

- Data Encryption & Access Control

#### **Module 4: Application Usability & Optimization**

- UI Customization with Themes & Templates
- Improving Performance with Caching & Optimizations
- Responsive Design Best Practices

#### **Module 5: Integration & Extensibility**

- RESTful Web Services Integration
- Consuming & Publishing Web Services
- Using Plug-ins & Reusable Components

#### **Module 6: Deployment & Maintenance**

- Exporting and Importing Applications
- Managing Application Versions
- Best Practices for Production Deployment