

# Oracle Application Express - Level 1

Learn via: **Classroom / Virtual Classroom**

Duration: **3 Days**

## **Overview**

This level 1 course is for anyone who wants to learn the basics of Application Express (APEX)

## **Prerequisites**

We recommend a basic knowledge of SQL and PL/SQL or attendance of the following courses prior to attending this course:

Oracle Database: SQL And PL/SQL Fundamentals

## **What You Will Learn**

### **Introducing Application Express**

- What is Application Express(APEX)
- Benefits of APEX
- History of APEX
- Architecture Overview - logical and physical
- APEX Repository Overview
- Out of the box development features
- SQL Developer and APEX
- Building integrated applications
- Integrating APEX & BI Publisher

### **Getting Started with Application Express**

- What is a Workspace?
- Different types of APEX users
- How to access APEX
- Application Express Components
- What is an Application?
- What is a Packaged Application?

### **Working with the SQL Workshop**

- What is SQL Workshop?
- Browsing, creating and modifying objects
- Processing ad hoc SQL and PL/SQL statements
- Managing scripts
- Using the Utilities

### **Creating a Database Application**

- Types of Application
- Components of an application
- Application Builder Home Page
- An Application's Home Page
- Page Definition
- Creating an application from scratch
- Creating an application from a spreadsheet

### **Creating Forms**

- Different Types of Forms

- Creating Forms based on a Table or a View
- Running the Page and the Developer Toolbar
- Page Definition
- Creating Tabular Forms
- Creating Master-Detail Forms

## Creating Reports

- Types of Reports
- Creating Wizard Reports
- Linking a Report to a Form
- Creating SQL or Classic Reports
- Creating Interactive Reports

## Understanding Pages and Regions

- What is a Page in APEX?
- Different Sections of a Page
- Page Rendering
- Page Processing
- Shared Components
- Page Attributes
- What is a Region?
- Lists, Breadcrumbs and Calendar Regions
- Positioning Regions

## Working with Items & Buttons

- Types of Items (Text, Text Area, Checkbox, Select List, Radio Group etc.)
- Types of Buttons
- Creating a Report Filter

## Page Processing

- Types of Page Processing
- Types of Computations
- Types of Processes
- Types of Validations
- Types of Branches

## Understanding Session State

- Understanding Sessions
- Session IDs and APEX URLs
- What is Session State?
- Viewing Session State
- Referencing Session State in your Application
- In-built Substitution Variables
- f?p syntax example

## Working with Shared Components

- What is a Shared Component?
- Types of Shared Components
- What are List of Values (LOVs)?
- Creating Cascading LOVs
- Uploading and Referencing Images
- Application Items, Computations and Processing
- Creating Tabs

## Themes and Templates

- Understanding Themes
- Switching Themes
- Changing Theme Defaults
- Understanding Templates in APEX
- Understanding CSS in APEX
- How to incorporate your own look and feel by customizing themes, templates & CSS

## Oracle APEX Workspace Administration

- Workspace Administration Topics
- Manage Services
- Manage Users and Groups
- Monitor Activity

- Dashboards
- Workspace Utilization
- Feedback Form
- Team Development

### **APEX Security Features**

- Understanding the Security Options in APEX
- Creating Custom Authentication
- Understanding Authorization - Access Control Page
- Session State Protection.

### **Packaging & Deploying Applications**

- Understanding Different Deployment Options
- Exporting an Application
- Including Supporting Objects
- Importing and Installing an Application