

# Oracle Java Application Developer (OJAD)



Oracle is the most widely used database in the world today and Java is the programming language of choice for web application developers, this technology combination is ideal for those looking to build a lasting IT career.

As a professional with both technology skills, your value as an employable resource is sure to be recognized by recruiting companies.

The **Oracle Java Application Developer (OJAD)** has been designed to equip you with technology skills that are most desired by the IT industry today.

The curriculum of this course covers key concepts of both Oracle and Java technologies, with special emphasis on modules such as SQL, PL/SQL, Web Component Development, Struts, Hibernate among many others.

## Why should you invest in this program?

By undergoing the Oracle Java Application Developer course, you will be better equipped to:

- Use Linux platform to develop software applications
- Understand design of relational databases
- Manage database objects
- Use SQL and PL/SQL to perform database operations
- Develop applications using Java technology on the Linux platform

## Additionally, you will also:

By undergoing the Oracle Java Application Developer course, you will be better equipped to:

- Be trained in much sought after technologies in software development, that give you an edge over others in the competitive job market
- Supplement your classroom learning with additional online learning resources
- Experience Web 2.0 tools and technologies in a learning environment

## Are you right for this program?

Whether you are a graduate seeking a rewarding IT career or are currently employed as an IT professional looking to enhance existing skills, or even attain technology certification, this program is ideal for you. All graduates (B.A, B.Com, B.Sc, B.E, B.Tech, M.Tech & MCA) with an aptitude for application development, will benefit from this program as it equips you with the necessary technology skills to compete for the best jobs in the industry.

The pre-requisites for this program is basic knowledge of any Operating Systems and Programming Language.

## What qualification will this program give you?

Our curriculum will enable you to appear for internationally recognized examinations enabling you to achieve the following certifications:

- OCA (PL/SQL Developer) from Oracle University
- OCP (JAVA SE 6 Programmer) from Oracle University
- OCP (JAVA EE 5 Web Component Developer) from Oracle University



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## Course Details

ILT Duration: 248 hours

**Overview of Linux - 8 Hours**

- Characteristics of Linux Operating System
- Simple commands of Linux
- Standard I/O and Pipes
- User, Groups and Permissions
- VI editor Basics

**DBMS Concepts - 8 Hours**

- Database Design
- Entity - Relation ship Diagram
- Normalization
- Relational Database

**Oracle 10g SQL\* - 40 Hours**

- Introduction
- Writing Basic SQL Statement
- Restricting & Sorting Data
- Using Single Row Function for Customized output
- Displaying Data from Multiple Tables
- Reporting Aggregated Data
- Sub- Queries
- Using the Set Operators
- Manipulating Data
- Creating and Managing Tables
- Creating Other Scheme Objects
- Managing Objects with Data Dictionary Views
- Controlling User Access
- Managing Schema Objects
- Manipulating Large Data Sets
- Generating Reports by Grouping Related Data
- Managing Data in Different Time Zones
- Retrieving Data Using Subqueries
- Hierarchical Retrieval
- Regular Expression Support

**Oracle 10g PL/ SQL\* - 40 Hours**

- Introduction
- Declaring PL/SQL Identifiers
- Writing Executable Statements
- Interacting with the Oracle Server
- Writing Control Structures
- Working with Composite Data Types
- Using Explicit Cursors
- Handling Exceptions
- Creating Procedures
- Creating Functions
- Creating Packages
- More Package Concepts
- Oracles Supplied Packages in Application Development
- Dynamic SQL and Metadata
- Design Consideration for PL/SQL Code
- Managing Dependencies
- Manipulating Large Objects
- Creating Triggers
- Applications for Triggers
- Understanding and Influencing the PL/SQL compiler

**Best Practices in Oracle Development -16 Hours**

- Introduction
- Understanding Structured Project Life Cycle
- Overview of Database Architecture
- Collecting Table/ Index Statistics
- Explain plan
- Driving Tables
- Improve Query Performance
- Global Temporary Table
- Ideal Usage of Variable Data Structures
- Ideal Usage of control Structures & Exception Handling
- Things to look in when Writing Triggers

**OOPS Concepts - 8 Hours**

- Procedural Paradigm Fall backs
- Procedural Vs. Object Oriented
- Object Oriented Programming
- Advantage of OOP Approach
- OOP Core Concepts
- SDLC process

**Sun Java Programming (SL-275)\* - 40 Hours**

- Getting Started
- Object – Oriented Programming
- Identifiers , Keywords and Types
- Expression and Flow Control
- Arrays
- Class Design and Advance Class Features
- Exceptions and Assertions
- Collections and Generics Framework
- I/O Fundamentals
- Console I/O and File I/O
- Building Java GUIs Using the Swing API
- Handling GUI- Generated Events
- GUI –Based Applications
- Threads
- Networking and Socket Programming

**JDBC & Java EE PlatForm - 8 Hours**

- Introduction
- Key JDBC classes and the java.sql package
- Placing the Java EE Model in Context
- Java EE Component Model
- Web Component Model

**Web Component Development with Servlet and JSP Technology (SL-314)\* - 40 Hours**

- Introduction to Java Servlets
- Introduction to Java Server Pages
- Implementing an MVC Design
- The Servlet's Environment
- Container Facilities for Servlets and JSPs
- More View Facilities
- Developing JSP Pages
- Developing JSP Pages Using Custom Tags
- More Controller Facilities
- More Options for the Model
- Asynchronous Servlets and Clients
- Implementing Security

**Struts Framework\* - 24 Hours**

- Introduction to Struts2 Framework
- Features of Struts2
- Architecture of Struts2
- Struts1 Vs Struts2
- Benefits of Struts2
- Struts2 Servlet Filter
- Interceptors and Actions
- Struts2 Tags
- The Value Stack and OGNL
- Results and Result Types
- Struts2 validation model
- Struts2 support of i18n

**Hibernate\* - 16 Hours**

- Introduction to ORM
- Introduction to Hibernate as ORM
- Configuring Hibernate
- Working with Hibernate
- Hibernate Query Language
- The Criteria Query API
- Native SQL Queries
- Relationships
- Annotations

Note: Can be taken individually, subject to meeting respective prerequisites.\*