

# 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, technology combination and ideal for those looking to build a lasting IT career.

Java is the foundation for virtually every type of networked application and is the global standard for developing and delivering mobile applications, games, web-based content and enterprise software with more than 9 million developers worldwide, Java enables you to efficiently develop, deploy and use exciting applications and services. It's also integral to the Internet applications and other business solutions that are the foundation of Corporate computing.

From Laptops to data centers, game consoles to scientific supercomputers, Cell phones to the internet, Java is everywhere

- \* 1.1 billion desktops run Java
- \* Today, Java technology is already present in 5 billion SIMs and Smart Cards, 3 billion Mobile Handsets, 80 million TV devices, including every Blu-ray player shipped.
- \* Java powers set top boxes, printers, games, car navigation systems, ATMs, lottery terminals, medical devices, parking payment stations and more.

## Why software develop choose JAVA?

Java has been tested, refined, extended and proven by a dedicated community of Java developers, architects and enthusiasts. Java is designed to enable development of portable, high performance applications for widest range of computing platforms possible. By making applications available across heterogeneous environments, businesses can provide more services and boost end user productivity, communication and collaboration and dramatically reduce the cost of ownership of both enterprise and consumer applications. Java has become invaluable to developers by enabling them to :

- \* Write software on one platform and run it on virtually any other platform
- \* Create programs than can run within a web browser and access available web services
- \* Develop server side applications for online forums, stores, polls, HTML forms processing and more

- \* Combine applications or services using the Java language to create highly customized applications or services.

The **Oracle Java Applications Developer (OJAD)** course has been designed to equip you with both Database and Java programming skills that are most desired by the IT industry today.

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

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

## Value adds in your OJAD program

The value Add Modules Covering Linux, DBMS Concepts, Best Practices, OOPS Concepts, JDBC & JEE Platforms, Struts and Hibernate not only reinforce concepts and fundamentals but also supplement the Official Curriculum to provide complete knowledge.

## Are you right for this program?

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

## Why learn at ISQL Global?

- \* ISQL is a one stop shop for Training & Certification
- \* ISQL is one of the privileged few in India who are authorized by Oracle to train and certify students on not just OCA and OCP tracks but also advanced courses that lead to OCM program
- \* The structured delivery matches global standards and prepares you to successfully qualify in the Professional Certification Tests.
- \* Proficiency gained at ISQL has seen 95% of our students qualify Professional Certification Tests in the very 1st attempt.
- \* The pool of Trainers constantly aligns with very experienced industry professionals and the principals to provide you with updated industry relevant courses and real life case studies.
- \* Coursewares, Certificates & Certification directly from Oracle.
- \* Top IT professionals in various IT companies including senior VP, Delivery Managers, Training Managers, Project Managers, Team Leads and Developers are Alumni's of ISQL.

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ISQL Global - 3rd Floor, Dwaraka, No.36, Nungambakkam High Road, Nungambakkam - 600 034.  
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## COURSE DETAILS

### DBMS Concept

[8 Hours]

- \* Database Design
- \* Entity Relationship Diagram Normalisation
- \* Relational Database

### Oracle 11g SQL

[40 Hours]

- \* Writing Basic SQL Statement
- \* Restricting & Sorting Data
- \* Using single Row Function for customised output
- \* Displaying Data from Multiple Tables
- \* Reporting Aggregating 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 Scheme Objects
- \* Manipulating Large Data Sets
- \* Generating Reports by Grouping Related Data
- \* Managing Data in Different Time Zones
- \* Managing Data using Sub-queries
- \* Hierarchical Retrieve
- \* Regular Expression Support

### Oracle 11g 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
- \* Oracle supplied packages in Application Development
- \* Dynamic SQL and Metadata
- \* Design consideration for PL/SQL code
- \* Managing Dependencies
- \* Manipulating large objects
- \* Creating Triggers
- \* Application for Triggers
- \* Understanding & Influencing the PL/SQL Compiler

### OOPS & JAVA Fundamentals

[8 Hours]

- \* Procedural Paradigm Fall backs
- \* Procedural vs Object Oriented
- \* Object oriented Programming
- \* Advantage of OOP Approach
- \* OOP Core concepts
- \* SDLC

### JAVA programming

[48 Hours]

- \* Introducing the JAVA technology
- \* Thinking in Objects
- \* Introducing the JAVA Language
- \* Working with Primitive Variables
- \* Working with Objects
- \* Using Operators and decision constructs
- \* Creating and using arrays
- \* Using Loop Constructs
- \* Working with Methods and Method Overloading
- \* Using Encapsulation and Constructors
- \* Introducing Advanced Object Oriented Concepts
- \* Handling Errors
- \* Java Syntax and Class Review
- \* Encapsulation and Subclassing
- \* Java Class and Advanced Class Design
- \* Inheritance with Java Interfaces
- \* Generics and Collections
- \* String Processing
- \* Exceptions and Assertions
- \* Java I/O Fundamentals and Java File I/O
- \* Threading
- \* Localization
- \* JDBC Introduction
- \* Key JDBC Classes and the Java sql package

### Web Component Development with Servlet and JSP Technology

[40 Hours]

- \* Placing the JAVA EE Model in Context
- \* Java EE Component model
- \* Web Component Model
- \* Introduction to JAVA Servlets
- \* Introduction to Java Server Pages
- \* Implementing and MVC Design
- \* The Servlets Environment
- \* Container Facilities for Servlet & JSPs
- \* More View Facilities
- \* Developing JSP Pages
- \* Developing JSP pages using Custom Tags
- \* More Controller Facilities
- \* More Options of the Model
- \* Asynchronous servlets and Clients
- \* Implementing Security

### Struts Framework

[24 Hours]

- \* Introduction to Struts 2 Framework
- \* Features of Struts 2
- \* Architecture of Struts 2
- \* Struts 1 vs Struts 2
- \* Benefits of Struts 2
- \* Struts 2 Servlet Filter
- \* Interceptors and Actions
- \* Struts 2 Tags
- \* The Value Stack and OGNL
- \* Result and Result Types
- \* Struts 2 Validation Model
- \* Struts 2 Support of 18n.

### 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



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