



**Diploma in Database Developer (991) – Oracle Developer Forms**

<b>Prerequisites:</b> Basic knowledge of relational databases; for example, Access.	<b>Corequisites:</b> A pass or higher at Diploma level
<p><b>Aim:</b> This course aims to introduce the fundamentals of building applications with Oracle Forms part of the Oracle Developer Suite. The course will provide the Oracle Developer with practical experience of the functionality of Oracle Forms. Oracle Forms is a software product for creating screens that interact with an Oracle Database. It has a typical IDE including an object navigator, property sheet and code editor that uses PL/SQL. The primary focus of Forms is to create data entry systems that access an Oracle database. Oracle Developer Forms is a power and flexible development tools and it is complex by virtue of its power. Only an experienced Forms Developer knows the secrets for leveraging the power of Oracle Forms for fast and flexible application development.</p> <p>Leverage your investment by taking advantage of Web technologies to easily and quickly construct sophisticated database forms and business logic with minimal effort. Learn to use Oracle Forms Developer to rapidly build scalable, high-performance applications for the Internet. Build, test, debug, and deploy interactive Internet applications. Working in a graphical user interface (GUI) environment, candidates develop an order entry application from the ground up. This course provides a productive development environment for building enterprise class, scalable database applications for the Internet.</p> <p>This course is designed to enhance the skills of programmers and software developers who might or might not already be familiar with the basics of Oracle Forms. By the end of this course, the delegate will be able to: Program Key Triggers to enhance standard Forms functionality, Cause Forms to respond to mouse events, Generate timers, Manipulate record groups, Create Master/Detail relationships explicitly, Handle query processing, Control transaction processing, Handle multiple canvas and window applications, Write multi-form applications, Generate customised menus.</p>	
<b>Required Materials:</b> Recommended Learning Resources.	<b>Supplementary Materials:</b> Lecture notes and tutor extra reading recommendations.
<b>Special Requirements:</b> The course requires a combination of lectures, demonstrations, discussions, and hands-on labs.	
<p><b>Intended Learning Outcomes:</b></p> <ol style="list-style-type: none"> <li>1. Describe the visual, structural and technical design of the Forms Builder Main Screen. Outline the architecture of Oracle Forms Services</li> <li>2. Describe the Oracle Forms Rapid Application Development (RAD) environment, the Forms Runtime environment and the Oracle Internet Application Server (IAS) Forms Services.</li> <li>3. Outline the basic steps for creating a basic data entry and query form for a single database table</li> </ol>	<p><b>Assessment Criteria:</b></p> <ol style="list-style-type: none"> <li>1.1 Explore Oracle Forms Object Navigator</li> <li>1.2 Outline the content of the Object Navigator sections</li> <li>1.3 Be able to connect to the Database</li> <li>2.1 Describe the Single Block Form.</li> <li>2.2 Describe the Single block Form with lookup field.</li> <li>2.3 Describe the Master/Detail Form.</li> <li>2.4 Describe Master/Detail Form with lookup fields.</li> <li>2.5 Describe Text Items and Display Items</li> <li>2.6 Explore Buttons, List Items, Radio Groups, and Check Boxes</li> <li>3.1 Describe Data Block wizard</li> <li>3.2 Describe Layout wizard</li> <li>3.3 Be able to create a data block using Data</li> </ol>

		Block wizard
	3.4	Be able to use Layout wizard to lay out items of a data block
	3.5	Explore the two main styles for forms
	3.6	Be able to use Layout Editor to move fields and labels
	3.7	Be able to display object properties
	3.8	Outline how to save a Form
	3.9	Be able to compile/build a Form
4. Describe the Basic Forms function. Outline the Oracle Forms environment for built-in record creation, query, and update modes.	4.1	Outline how to query a form
	4.2	Outline how to insert new records
	4.3	Be able to update existing records
	4.4	Analyse how to delete records
	4.5	Be able to exit the Form
5. Demonstrate the tasks to perform when using Oracle Forms Builder to create a master-detail form.	5.1	Describe Master-Detail relationship
	5.2	Outline the steps in creating a Master-Detail Form
	5.3	Explore the Relation Properties of a Master-Detail Form
	5.4	Describe the Program Units (PL/SQL Procedures) in a Master-Detail Form
6. Demonstrate how Oracle Forms developers can centrally manage List of Values (LOV).	6.1	Describe a List of Values
	6.2	Outline the steps in creating a List of Values
	6.3	Define Non-Base Table fields
7. Describe various Oracle Forms components and the steps to convert applications from Oracle Forms.	7.1	Explore how to create procedures in Oracle Forms
	7.2	Outline how to create a Trigger to call the Procedure
	7.3	Describe how to create Stored Procedures in SQL*Plus
	7.4	Analyse how to generate unique or consecutive identifiers using the table
	7.5	Be able to generate unique or consecutive identifiers using an Oracle Sequence
	7.6	Outline how to check constraints at the client
	7.7	Analyse how to add Alerts (Pop-up Messages)
	7.8	Describe how to automate Forms Query
	7.9	Be able to populate items with default values
	7.10	Outline how to attach functionality to command buttons
	7.11	Be able to pass parameters between forms
8. Describe interoperability issues associated with Oracle Reports and how clients connect to Oracle Reports Servers	8.1	Be able to run Oracle Reports Builder under Windows
	8.2	Explore the Oracle Reports Object Navigator sections
	8.3	Outline the steps in creating Reports in Oracle Reports
	8.4	Outline the procedure for creating a Single-Table Report




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<p>9. Outline how to develop menu modules to replace the Forms default menu, how to enhance your applications by including menu toolbars and pop-up menus and how to modify the Forms default menu.</p>	8.5	Describe the steps for creating a report that views the contents of two tables in a Master-Detail (one to many) relationship
	8.6	Explore Parameter forms in Oracle Reports
	9.1	Describe the default menu
	9.2	Define custom menu
	9.3	Be able to explicitly specify the default menu in Forms
	9.4	Describe the Oracle Forms menu hierarchy object categories
	9.5	Describe the process of creating a Custom Menu.

### Recommended Learning Resources: Oracle Developer Forms

<b>Text Books</b>	<ul style="list-style-type: none"> <li>• Oracle Developer Advanced Forms and Reports by Peter Koletzke and Paul Dorsey. ISBN-10: 0072120487</li> <li>• Oracle Forms Interactive Workbook by Baman Motivala. ISBN-10: 0130158089</li> <li>• Oracle Developer Forms Techniques by Bulusu Lakshman. ISBN-10: 0672318466</li> </ul>
<b>Study Manuals</b> 	BCE produced study packs
<b>CD ROM</b> 	Power-point slides
<b>Software</b> 	Oracle Database