

## Oracle PL/SQL

**Duration: 2 Days    Course Code: OPI    Delivery Method: Company Event**

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### Overview:

#### Oracle PL/SQL Course Overview

The Oracle PL/SQL course is designed to introduce Oracle DBAs, software development personnel and database support staff to the primary features and constructs of the PL/SQL Programming Language. Similarly, the course is targeted to closely follow the official Oracle Database curriculum for certification. Exercises and examples are used throughout the course to give practical hands-on experience with the techniques covered. Versions supported 12cR2, 18c and 19c.

#### Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

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### Target Audience:

#### Who will the Course Benefit?

Oracle database administrators, software development personnel and database support staff who need to write PL/SQL scripts to enhance their productivity in manipulating data.

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### Objectives:

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  - To provide the skills needed to write stand-alone programs using the main features of Oracle's PL/SQL Programming Language.
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### Prerequisites:

- A working knowledge of Oracle SQL or SQL Developer is required along with practical experience in writing SQL statements. This knowledge can be obtained by attendance on the pre-requisite Oracle SQL course. Some previous programming experience will also prove advantageous.
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### Follow-on-Courses:

#### Further Learning

- Oracle PL/SQL Stored Program Units
  - Oracle Database 19c Administration
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## Content:

### Oracle PL/SQL Training Course Course Contents - DAY 1

#### Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

#### Session 1: PL/SQL FUNDAMENTALS

- What is PL/SQL?
- Basic Elements
- Variables and Constants
- Data Types
- Initialising Variables and Assigning Values
- Using SQL Statements in Code
- Generating Output to SQL or SQL Developer

#### Session 2: PROGRAM LOGIC

- IF THEN ELSIF ELSE Statements
- CASE Statements
- The Basic Loop Construct
- WHILE and FOR Loops
- Nested and Labelled Loops
- The GOTO Statement
- The CONTINUE Statement

#### Session 3: USING CURSORS

- What is a Cursor?
- Implicit and Explicit Cursors
- Cursor Operations
- Declaring, Opening and Closing Cursors
- Fetching Rows
- Status Checking
- Using Cursors FOR UPDATE
- The Cursor FOR Loop
- Parameterised Cursors Oracle PL/SQL Training Course Course Contents - DAY 2

#### Session 4: EXCEPTIONS AND NESTED BLOCKS

- The EXCEPTION Section
- Types of Exception
- Handling Named System-Raised Exceptions
- Handling Un-named System-Raised Exceptions
- User-Declared Exceptions and Application Errors
- WHEN OTHERS THEN NULL
- Nested and Labelled Blocks
- Propagation of Exceptions
- Scope of Variables and Cursors
- Scope of Goto Statements

#### Session 5: PL/SQL RECORDS AND INDEX-BY TABLES

- Declaring Record Types
- Handling PL/SQL Records
- Nested Records
- Declaring PL/SQL Index-By Tables or Associative Arrays
- PL/SQL Table Built-in Functions
- Manipulating PL/SQL Tables or Associative Arrays

## Further Information:

For More information, or to book your course, please call us on 0800/84.009

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[www.globalknowledge.com/en-be/](http://www.globalknowledge.com/en-be/)