



## Oracle PL/SQL

**Duration: 2 Days**    **Course Code: OPI**    **Delivery Method: Virtual Learning**

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### 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. Versions supported 11gR2, 12cR2, 18c, 19c.

#### Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

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### Target Audience:

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:

- 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 SQL\*Plus or SQL Developer and Oracle SQL is required along with practical experience in writing SQL statements. This can be obtained by attendance on the pre-requisite course. Some previous programming experience will also prove advantageous.

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### Follow-on-Courses:

- Oracle PL/SQL Stored Program Units (OSPU)
  - Oracle Forms - Part I (OF19I)
  - Oracle Database 19c Administration (O19CDBA)
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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

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## Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

[info@globalknowledge.co.uk](mailto:info@globalknowledge.co.uk)

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

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK