

**ICT and Security Management**

# Oracle Administration

Prepared as a professional course profile for delegate review, sponsorship approval and organisational training planning.

COURSE CODE

**MSD2840**

DELIVERY

**Online / Face-to-Face**

DURATION

**Flexible**

PREPARED FOR

**Organisation Approval**[Register for this Course](#)[View Online Course Page](#)

## Course Overview

This course is designed to give delegates a firm foundation in basic administration of Oracle Database 11g. In this class, delegates learn how to install and maintain Oracle Database 11g. Delegates gain a conceptual understanding of the Oracle database architecture and how its components work and interact with one another. Delegates learn how to create an operational database and properly manage the various structures in an effective and efficient manner including performance monitoring, database security, user management, and backup/recovery techniques. The lesson topics are reinforced with structured hands-on practices.

Oracle makes some of the most highly-respected and popular database and enterprise software products in the world. Our range of Oracle courses covers vital skills for the administration of Oracle databases, as well as providing an understanding of Oracle's SQL database language and their Discoverer tool-set.

## Course Outcomes

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- Software installation and the creation of new databases.
- An in-depth exploration of the database architecture, including memory, process and data structures, and the management of those structures.
- Management of database files.
- Specialized facilities intended to maximize performance of enterprise-scale transactional applications, such as the shared SQL and PL/SQL cache, the result cache, the database buffer cache, and other similar components.
- Management of security policies and procedures, including administration of user accounts, roles, privileges and profiles.
- Utilization of advanced self-tuning and self-management capabilities, including the use of Oracle-Managed Files, database Advisors and other components of the Management Framework.
- Performance monitoring, problem troubleshooting, and resolving lock and conflict issues.
- Using the Oracle Enterprise Manager and SQL interfaces for administration tasks.
- Control over database support services, including the Database Control, Oracle Net and others.
- A primer on backup and recovery structures and strategies.
- Operating system-specific considerations for various platforms, especially Linux and MS Windows Serve

# Course Outline / Curriculum

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## Oracle SQL Fundamentals Course Outline

### Module 1: Relational Database Concepts

- Basic Concepts
- Different Keys and Their Functions

### Module 2: Using SQL\*Plus and SQL Developer

- Overview of SQL\*Plus
- Working with SQL\*Plus
- Introducing the SQL Developer
- Components of SQL Developer

### Module 3: SQL Functions

- Retrieving Data with the Select Statement
- Using the Aggregate Functions
- Joining Tables
- Numeric Character and Date Functions
- Conversion Functions

### Module 4: SQL Parameters

- Parameter Declaration
- Keyword and Parameter Descriptions

### Module 5: Using Subqueries

- Subqueries
- Subqueries with the Select Statement
- Subqueries with Insert and Update

### Module 6: Managing Data

- About Database Management
- Monitoring Databases
- Administering Databases

### Module 7: Managing Tables

- Guidelines for Table Management
- Creating Tables
- Creating a Temporary Table
- Loading Tables
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Automatically Collecting Statistics on Tables

- Altering Tables
- Dropping/Truncating Tables
- Managing External Tables
- Creating External Tables
- Altering External Tables
- Dropping External Tables
- System and Object Privileges for External Tables
- Viewing Information About Tables

### **Module 8: Managing Indexes and Views**

- About Indexes
- Index Management
- About Views
- Creating Views

### **Module 9: Managing Sequences and Synonyms**

- About Sequences
- Creating Sequences
- Altering Sequences
- Dropping Sequences
- About Synonyms
- Creating Synonyms
- Dropping Synonyms

### **Module 10: Retrieve Data Using Subqueries**

- Types of Subqueries
- IN and NOT IN Subqueries

### **Module 11: Hierarchical Queries, Grouping Features, and Large Data Sets**

- Hierarchical Queries
- Enhanced Grouping Features
- Managing Very Large Databases

### **Module 12: Flashback Technology**

- Overview of Oracle Flashback Technology
- Using Flashback Features in Application Development
- Using Flashback Features in Database Administration
- Configuration of Database for Flashback Technology

### **Module 13: Date, Time, And Time Zone Support**

- Introduction to Time Zone Support
- Datetime and Interval Datatypes

### **Module 14: Regular Expression Support**

- Introduction to Regular Expressions
- Implementation of Oracle Database Regular Expressions

### **Module 15: Manage Objects with the Data Dictionary**

- Introduction to Data Dictionary
- Structure of Data Dictionary
- How the Data Dictionary is Used?

### **Module 16: Manage Schema Objects**

- Introduction to Schema Objects
- Creating Multiple Tables and Views in a Single Operation
- Analysing Tables, Indexes, and Clusters
- Schema Object Management Privileges

### **Module 17: Access Control**

- Introduction
- Access Mediation
- Understanding User Authentication
- Securable, Principals, and Permissions

## **Target Audience**

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Microsoft Outlook

## Key Course Benefits

### Work-Ready Skills

Delegates leave with practical tools, templates and methods they can apply immediately at work.

### Better Institutional Results

The programme supports stronger planning, reporting, compliance, accountability and service delivery.

### Sponsor-Friendly

This document is designed to help supervisors, HR units and sponsors approve delegate participation quickly.

### Professional Recognition

Delegates receive training documentation and a certificate of completion after successful participation.

## Our Training Centres & Delivery Options

Magna Skills offers flexible delivery through face-to-face training centres across Africa and beyond, plus Online / E-Learning for delegates who prefer remote participation.

### Southern Africa

Practical training destinations with strong travel access and delegate support.

Pretoria, South Africa    Vic Falls, Zimbabwe  
Livingstone, Zambia

### East Africa

Popular regional centres for government, NGO and donor-funded project teams.

Kigali, Rwanda    Kampala, Uganda    Nairobi  
Zanzibar, Tanzania

### West Africa & Islands

Strategic locations for regional networking and executive capacity building.

Accra, Ghana    Port Louis, Mauritius

### International Executive Venue

Premium destination training for senior teams and international delegates.

Dubai, United Arab Emirates

### Online / E-Learning

Attend from anywhere through live online, blended or self-paced learning options.

Online, E-Learning    Remote Teams    Flexit

### Organisation-Based Training

Magna Skills can also arrange dedicated in-house training for ministries, NGOs and companies.

Onsite    Custom Dates    Group Training

## Ready to Nominate Delegates?

Use the links below to register, review the live course page or contact Magna Skills for organisation-based training support.

[Register / Apply Online](#)

[View Full Course Page](#)

## About Magna Skills

Magna Skills Development Institute provides practical capacity building programmes for government departments, NGOs, public institutions, donor-funded projects and private sector professionals across Africa. Our training approach combines expert facilitation, real workplace case studies, practical tools, post-training support and professional documentation that helps organisations strengthen staff performance and service delivery.

Government Training

NGO Capacity Building

Corporate Workshops

Online Learning

Face-to-Face Training

Certifica

## Approval & Authorisation Form

This section may be completed by the organisation, department, HR office, finance office or sponsor approving delegate participation. It can be attached to an internal memo, procurement request or training approval submission.

<b>Organisation / Department</b>	
<b>Delegate Name(s)</b>	
<b>Approved Course</b>	Oracle Administration
<b>Preferred Delivery Mode</b>	<input type="checkbox"/> Online <input type="checkbox"/> Face-to-Face <input type="checkbox"/> Organisation-Based Training
<b>Preferred Training Venue / Date</b>	
<b>Estimated Number of Delegates</b>	
<b>Budget / Vote Number</b>	
<b>Contact Person</b>	
<b>Email / Mobile</b>	

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Authorised Name

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Signature / Stamp

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Date