

**ICT and Security Management**

# Database Management Systems

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

COURSE CODE

**MSD2638**

DELIVERY

**Online / Face-to-Face**

DURATION

**Flexible**

PREPARED FOR

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

## Course Overview

Magna Skills is pleased to offer the Database Management Systems course, a comprehensive program designed to provide participants with in-depth knowledge and practical skills in managing databases. This course covers fundamental database concepts, database design, implementation, optimization, and the use of modern database management tools.

## Course Outcomes

- Upon completion of the course, participants will:
  1. **Understand Database Fundamentals:**
    - Gain a solid understanding of fundamental database concepts.
    - Learn the importance of data integrity, consistency, and security.
  2. **Database Design and Modeling:**
    - Learn the principles of database design and modeling.
    - Understand the normalization process and best practices.
  - 3.

### **Implementation and Administration:**

- Implement databases using popular database management systems (DBMS).
- Understand database administration tasks, including user management and security.

4.

### **Querying and Reporting:**

- Develop skills in writing SQL queries for data retrieval and manipulation.
- Create reports and analyze data using SQL-based tools.

5.

### **Performance Optimization:**

- Learn techniques for optimizing database performance.
- Understand indexing, query optimization, and caching strategies.

6.

### **Data Backup and Recovery:**

- Implement robust data backup and recovery strategies.
- Understand disaster recovery planning for databases.

## **Course Outline / Curriculum**

## **Module 1: Understanding Database Fundamentals**

- Importance of databases in information management
- Principles of data integrity, consistency, and security

## **Module 2: Database Design and Modeling**

- Principles of database design and modeling
- Normalization process and best practices

## **Module 3: Implementation and Administration**

- Implementing databases using popular DBMS
- Database administration tasks and security

## **Module 4: Querying and Reporting**

- Writing SQL queries for data retrieval and manipulation
- Creating reports and analyzing data using SQL-based tools

## **Module 5: Performance Optimization**

- Techniques for optimizing database performance
- Indexing, query optimization, and caching strategies

## **Module 6: Data Backup and Recovery**

- Implementing data backup and recovery strategies
- Disaster recovery planning for databases

### **Who Can Attend:**

This course is suitable for database administrators, IT professionals, software developers, and individuals interested in gaining expertise in database management systems, including but not limited to:

- Database Administrators
- IT Professionals
- Software Developers
- Data Analysts
- Database Developers

### **Delivery Format:**

The Database Management Systems course, offered by Magna Skills, will be delivered through a mix of interactive lectures, hands-on exercises, case studies, and group discussions. Participants will have the opportunity to apply theoretical knowledge in practical scenarios, fostering a comprehensive and engaging learning experience. Additionally, guest speakers with expertise in database management systems may be invited to share insights and practical experiences.

## Target Audience

The Electronic Records Management (ERM) training workshop is designed for Business Managers, IT Managers, Compliance Officers, Archivists, Librarians, Risk Managers, Records Managers and Information Managers, as well as for solution providers, IT and Sales consultants, Project managers, and technical

## 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>	Database Management Systems
<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 ofDelegates</b>	
<b>Budget / Vote Number</b>	
<b>Contact Person</b>	
<b>Email / Mobile</b>	

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Authorised Name

Signature / Stamp

Date

Prepared by Magna Skills Development Institute | Training Coordinator: Denis Wunganayi

Register: <https://www.magnaskills.com/applyadd?c=2638> | Course Page: <https://www.magnaskills.com/course/2638> | WhatsApp: +27 63 007 9022

This document is intended to support course review, sponsorship approval, delegate nomination and organisational training planning.