MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

DATABASE SECURITY AUDIT: REVIEWS THE SECURITY CONTROLS AND ACCESS MANAGEMENT OF DATABASES WITHIN AN ORGANIZATION

"Ensure Robust Security and Effective Access Management for Your Organization's Databases"

Schedule

Date	Venue	Fees (Face-to-Face)
20 - 24 Jul 2026	London, UK	USD 3495 per delegate

Introduction

This five-day training course is designed for IT professionals and auditors to gain the knowledge and skills required to perform a comprehensive Database Security Audit. As databases store sensitive and critical organizational data, ensuring their security and proper access management is vital. This course will help participants understand the security risks associated with databases, how to assess their vulnerabilities, and how to implement effective security controls.

The course focuses on key topics such as database access management, security policies, encryption, and best practices for ensuring compliance with data protection regulations. Participants will also explore common database vulnerabilities, threats, and how to mitigate them, with real-world case studies and hands-on exercises.

Objectives

By the end of this course, participants will be able to:

- Understand the importance of database security and access management
- Conduct a thorough database security audit to identify vulnerabilities and risks
- Implement security measures such as encryption, user access controls, and backup protocols
- Evaluate database security policies and procedures for compliance with industry standards
- Report security findings and provide recommendations for improvements

MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

Why Attend

- Gain a deep understanding of database security risks and their mitigation
- Learn how to implement robust access management and encryption techniques for databases
- Understand the impact of database vulnerabilities on organizational security
- Learn to assess and audit databases for compliance with data protection laws
- Enhance your database security practices to prevent unauthorized access and data breaches

Target Audience

This program is designed for:

- IT auditors and security professionals
- Database administrators and managers
- Compliance officers and risk managers
- Security consultants specializing in database security
- Anyone responsible for database security and access management within an organization

Individual Benefits

Key competencies that will be developed include:

- Expertise in identifying and mitigating database security risks
- Proficiency in database access management and security best practices
- Knowledge of encryption and data protection strategies for databases
- Ability to conduct database security audits and assessments
- Improved skills in reporting database vulnerabilities and proposing security improvements

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Enhanced ability to secure organizational databases and prevent unauthorized access
- Stronger database security practices that comply with industry regulations
- Effective strategies for managing database access and mitigating data breaches
- Improved understanding of database security risks, leading to reduced vulnerabilities
- A culture of continuous improvement in database security and access management

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Overview of database security risks, principles, and best practices
- Case Studies – Real-world examples of database security audits and risk mitigation
- Workshops – Hands-on exercises to assess and secure databases, including access management and encryption
- Peer Exchange – Group discussions on common database security challenges and solutions
- Tools – Templates for conducting database security audits, access control frameworks, and encryption techniques

MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

Course Outline

Detailed 5-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM **Daily Format:** 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Introduction to Database Security and Access Management

- Module 1: Database Security Overview (07:30 – 09:30)
- Key principles of database security and risk management
- Importance of access controls and security policies
- Common database vulnerabilities and threats
- Module 2: Access Control and Authentication (09:45 – 11:15)
- Methods of securing database access (user authentication, multi-factor authentication)
- Role-based access control (RBAC) and least privilege principle
- Database user management best practices
- Module 3: Security Policies and Regulations (11:30 – 01:00)
- Overview of database security policies and regulatory compliance (GDPR, HIPAA, etc.)
- Establishing security frameworks and guidelines for database management
- Ensuring compliance with industry standards and regulations

Day 2: Database Vulnerabilities and Threats

- **Module 4: Common Database Vulnerabilities (07:30 – 09:30)**
- SQL injection and other common database attack vectors
- Understanding the impact of database misconfigurations and flaws
- Database security audit tools and techniques
- **Module 5: Threats to Database Confidentiality, Integrity, and Availability (09:45 – 11:15)**
- Preventing unauthorized access and data breaches
- Protecting database integrity against tampering and corruption
- Ensuring availability and disaster recovery for databases
- **Module 6: Database Encryption and Data Protection (11:30 – 01:00)**
- Implementing encryption at rest and in transit
- Data masking and tokenization techniques
- Best practices for securing sensitive data within databases

Day 3: Conducting Database Security Audits

- Module 7: Preparing for a Database Security Audit (07:30 – 09:30)
- Defining audit objectives and scope
- Identifying critical areas for database security assessment
- Gathering necessary data and audit tools
- Module 8: Executing the Database Security Audit (09:45 – 11:15)
- Step-by-step guide to performing a database security audit
- Evaluating access controls, security measures, and data protection strategies
- Identifying vulnerabilities and areas for improvement
- Module 9: Reporting Security Findings (11:30 – 01:00)
- Structuring an audit report and presenting security findings
- Prioritizing vulnerabilities and recommending remediation strategies
-

Communicating audit results to stakeholders

Day 4: Mitigating Database Security Risks

- Module 10: Risk Mitigation Strategies (07:30 – 09:30)
- Implementing database hardening techniques
- Configuring access control lists (ACLs) and firewalls
- Developing a database security incident response plan
- Module 11: Securing Database Backups and Recovery (09:45 – 11:15)
- Best practices for securing database backups
- Database disaster recovery planning
- Ensuring secure and efficient data restoration
- Module 12: Monitoring and Maintaining Database Security (11:30 – 01:00)
- Continuous monitoring techniques for database security
- Implementing database security patches and updates
- Managing security logs and audit trails

Day 5: Database Security Best Practices and Final Assessment

- Module 13: Best Practices for Ongoing Database Security (07:30 – 09:30)
- Maintaining security in a multi-cloud and hybrid database environment
- Keeping databases secure in the age of big data and AI
- Leveraging automation for database security
- Module 14: Group Exercise: Database Security Audit Simulation (09:45 – 11:15)
- Conducting a mock database security audit
- Identifying vulnerabilities and proposing mitigation strategies
- Peer feedback and discussions
- Module 15: Final Review and Certification (11:30 – 01:00)
- Final Q&A session and course review
- Closing remarks and distribution of certificates

Certification

Participants will receive a Certificate of Completion in Database Security Audit, demonstrating their proficiency in auditing and securing databases, implementing effective access management, and mitigating security risks.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**

Follow us: **Facebook** **Twitter** **YouTube** **LinkedIn** **Instagram**

© Material published by MAWA Events shown here is copyrighted. All rights reserved. Any unauthorized copying, distribution, use, dissemination, downloading, storing (in any medium), transmission, reproduction or reliance in whole or any part of this course outline is prohibited and will constitute an infringement of copyright.