Advanced ERP Database Security and Control for Auditors (ADSC)

COURSE OBJECTIVE

To be able to assess the adequacy and effectiveness of controls related to Database Management Systems (DBMSs) successfully, one has to understand the concepts on which they are based.

The objective of this course is to familiarize participants with the security of the main types of relational database management systems, using a risk-based approach. Each risk will be considered in relation to each type of database, allowing auditors to learn how the risk is addressed by the databases under consideration.

COURSE CONTENT

Database concepts
- The Entity-Relationship (= ER) Model (the most common approach to conceptual database design)
- The Relational Data Model – Relations – Integrity Constraints (keys, foreign keys, etc.)
- Logical Database Design (ER to relational schemas)
- Database design, schema, Tables
- Structured Query Language (SQL)
- Transactions, Concurrency, Administration

Database types:
- MS SQL Server; IBM DB2; Oracle 11g and Oracle 12c
- IBM Informix; Sybase

Database Risk and Controls
- Authentication risks – internal, external and global authentication
- Risks of default accounts and passwords
- Database roles and their risks
- Improper allocation of built-in roles
- Server and database roles and their risks

Database Auditing
- Activating database auditing
- Database logins and how to audit them
- What’s being audited? How to list the audit settings
- Limitations of built-in database auditing
- Use of triggers to overcome standard auditing limitations
- Risks of improper access to the audit trail

COURSE OUTCOME

Upon successful completion of the training, participants should be able to understand and apply a suite of methods and techniques to assess database security and controls.

CASE STUDIES
A case studies and live demonstration will be applied, i.e. Oracle, SQL Databases

A 10% group discount will apply to organisations placing a simultaneous booking for 2 or more registrants.

Please click here for general course information

Delegates are also requested to review the content and the levels of the courses presented before booking, to ensure they are attending the right course.