

# **Control & Security of Oracle**

**COURSE DURATION:** 2-days

**CPE HOURS:** 16

**LEVEL:** Intermediate / Group-Live

**PREREQUISITES:** None

**ADVANCE PREPARATION:** None

This two day seminar will provide participants with a thorough understanding of the key control and security issues of the **Oracle Database** management product.

We begin with an overview of the Oracle product, its features and capabilities. Once the basic concepts are understood, the instructor will focus on each of the critical components and provide participants with in-depth coverage of the major control issues. It is essential that strong controls are in place when the product is first loaded to prevent the installation of Trojans and back doors that can grant unauthorized access to programs and data files. For this reason, the section on product installation and configuration will identify the key control points necessary to establish a security baseline. This will ensure that security is implemented early in the Oracle development life cycle. The instructor will then move on to the controls required for application design and construction, testing, and then implementation. Special emphasis will be placed on developing and implementing strong security practices that ensure the programs, databases and Oracle operating environment are protected. As with all Canaudit control and security seminars, participants will receive a series of risk control tables and checklists to assist them in their first audit.

## **WHO SHOULD ATTEND**

This session is intended for auditors and security personnel who need a basic understanding of the control features of Oracle security practices and who require a solid approach to ensure Oracle security is fully implemented.

## **SEMINAR OUTLINE**

### **I Introduction**

- Why Oracle?
  - Most Popular Database
  - Powerful & Widely Accepted
  - Cross Platform Capability
  - Choice of Mainframe
  - Capability to Span Multiple Platforms
  - World-wide Service Support
  - Multi-language Capability
  - Large Customer Base
  - Audit Risks
  - What We Need To Know

### **II Understanding Oracle**

- Overview of Oracle
- Database Internals
- Memory Terminology
- User Terminology
- Additional Query Related Terminology
- Risk/Control Tables
- Audit Checklists

### **III Security and Audit Functions**

- Oracle Security
- User Issues
- User Administration
- The Oracle Auditing Function
- Risk/Control Tables
- Audit Checklists
- Audit Software

### **IV Operating System Security**

- Identifying Server Security Requirements by Platform
  - UNIX/AIX Operating Systems
  - Windows NT Operating System
  - Novell NetWare Operating System
- Security Requirements
  - Client & User Security
  - File Data & Share Security
- Risk/Control Tables
- Audit Checklists

### **V Backup and Recovery**

- Oracle Backup and Recovery
- Exports and Imports
- Mirroring, Raid and other Backup Methodologies
- Risk/Control Tables
- Audit Checklists

### **VI Database Administration Issues**

- Database Layout
- Monitoring the Database
- Space, the next Frontier
- Other Methods to Improve Performance
- Risk/Control Tables
- Audit Checklists

### **VII Appendix A and B**

- Glossary
- Object Audit Options