



# Advancing Your IT Auditing Skills

## Course Schedule – Topics & Activities

### Day One

- Overview
  - IT Audit Risks
  - Assessing IT Risk
  - Designing IT Controls
  - Business Process Controls
  - General IT Controls
  
- Standards
  - COBIT
  - ISO/IEC 27001
  - NIST SP-800s
  - SANS
  - NSA
  - Center for Internet Security (CIS)
  
- Regulations
  - Sarbanes-Oxley
  - GLBA
  - HIPAA/HITECH
  - Privacy & GDPR
  
- Networking Basics
  - Defining types of networks
  - OSI model
  - TCP/IP

### Day Two

- Networking Risks & Controls
  - Remote access and authentication
  - Common vulnerabilities
  - Tools & resources
  
- Operating System Basics
  - OS Functions
  
- UNIX/Linux: risks & controls
  - Access control
  - Authentication
  - Key configurations
  - Change control

### **Day Three**

- Windows Server & Active Directory: risks & controls
  - Access control
  - Authentication
  - Key configurations
  - Change control
- Database Basics
  - Database Management Systems (DBMS)
  - Relational databases
  - Database design
- Oracle Database: risks & controls
  - Access control
  - Authentication
  - Roles
  - Privileged accounts

### **Day Four**

- SQL Database: risks & controls
  - Access control
  - Authentication
  - Roles
  - Privileged accounts
- Introduction to Encryption Methods
- Introduction to Cloud Computing & Virtualization
- Putting it All Together
  - Risk assessments
  - Audit planning & scoping
  - Reporting
  - Ongoing monitoring

*\*Topics and activities may vary by class and instructor.*