Computer Assisted Audit Techniques

Course overview
This two-day course aims to familiarize all audit personnel with IT auditing concepts and practices. The dominance of IT across industries and geographical areas has made it mandatory for all audit staff to be IT Audit fluent. The course has zero prerequisites and gradually exposes participants to introductory and more advanced topics of IT Auditing. The instructor’s CISA certificate and profound IT audit knowledge, coupled with extensive professional training experience all over the globe, ensures knowledge transfer. Do not miss the opportunity to take advantage of the instructor’s ability to convey simple messages even when dealing with complex topics.

What You Will Learn
Capitalise on the expert knowledge to gain maximum value on these vital issues:

• EXPLORE the boundaries of IT Auditing
• DISCOVER the newest approaches in dealing with this area
• OBTAIN IT fluency that will allow you to discuss with more specialized staff
• IMPROVE your skills in dealing with C.A.A.Ts
• EXECUTE audits with maximum efficiency through scripting
• GAIN an insight on how to best support your audit work when testing IT controls
• MANAGE optimally the expectations of your stakeholders against IT auditing

Who should attend
The dominance of IT in today’s corporate environments makes it important for every assurance provider to be familiar with IT Audit concepts. The majority of Corporate Controls are embedded in IT systems and therefore testing them requires minimum IT audit skills. The course is a must for every member of internal audit, risk management or compliance team but can also be attended by business managers who want to better understand the new environment that hosts the corporate game.
Course outline

Introduction – IT Auditing

- Definitions
- Why it is important
- Classifications of IT controls
- Development over the last 20 years
- Open discussion topic: Where the profession is going?
  Participants open discussion will be fueled by the presentation of CBOK survey on the status of IT Audit implementation (Aug 2015). Survey results are going to refer both to global and GCC context.

Information Technology General Controls

- Get to know widely-used ITGCs
  - Access controls
  - SoD in IT
  - Environmental controls
  - SDLC methodology
  - Program change management controls.
  - Physical security controls over the data center.
  - System and data backup and recovery controls.

Application Controls

- Advantages of testing/relying on Application Controls
- Get to know Application Controls
  - Input controls
  - Processing Controls
  - Output Controls
  - Integrity Controls
  - Management Trail

IT audit frameworks: fundamentals of COBIT 5

- Advantages from using frameworks
- Key features of COBIT® 5
- COBIT® 5 principles
- Blending COSO ERM and COBIT® 5

Cloud computing

- Pros and cons
- Associated risks and best practice controls
Mastering Computer Assisted Audit Techniques

- Introduction
- The audit approach
  - The CAATs approach
    - Primary benefits of CAATs
    - The usual pitfalls

Data management

- Data theory
  - How should I ask data from IT personnel?
  - Data hierarchy, fundamentals of databases.
- Overview of CAATs (participants are going to «meet» all modern CAATs techniques)
  - Test data generation
  - Integrated Test Facility
  - Tracing
  - Tagging
  - Mapping
  - Snapshot

Implementing Generalized Audit Software solutions

- Implementing GAS
- Practical demo: the instructor will make live demonstration of GAS by using IDEA tool
  Indicative areas include:
    - Data extraction
    - Ageing
    - Trend Analysis
    - Gaps and Duplicates
    - Benford’s law
    - File merging: the digital reconciliation approach
    - Extracting conclusions and creating audit reports through GAS
    - Creating scripts: maximizing the benefit of CAATs implementation

Proper documentation of CAATs effort.

- Information
- Services, Infrastructure and Applications
- People, Skills and Competencies
  - Implementation guidelines

Course duration: 2 days

CPES: 16