Application Principles of System Development for Internal Audit (APSD)

COURSE SYNOPSIS

This course enables fundamental understanding of the principles that guide the development of Application Systems and is intended to help IA to gain insights into the aspects that should be audited.

Auditing throughout the critical stages of the development goes a long way in contributing to Application development success.

This course covers, throughout the system development lifecycle, the various methodologies, tools and techniques used to design, testing, risks and associated controls and guidelines on how to audit. Included will be guidelines on how to conduct post-implementation review.

Further, in today’s world, Applications are seldom standalone and thus the course will cover principles related to different business application systems such as package, integrated, Enterprise resource Planning, e-commerce, Electronic data interchange.

COURSE OUTCOME

- Explain the different methodologies, tools and techniques regarding systems development;
- Analyse and explain the systems development life cycles;
- Compare and explain the different testing techniques;
- Identify and describe the risks and controls associated with systems development life cycles and how to audit;
- Explain and contextualize the different business application systems such as package, stand alone, integrated, ERP, e-commerce, EDI;
- Perform a post-implementation review and analyse the benefits realized by business.

COURSE CONTENT

1. Brief overview of ICT Principles and Concepts in an inter-connected world
   - Complexity of ICT
   - Application systems inter-connectivity
2. Discuss Different Types of Application
   - Standalone applications
   - Package Solutions
   - Integrated and ERP, e-commerce,
3. Overview of the Systems Development Life Cycle
4. Application Development Methodologies, Tools and Techniques
   - Overview of different methodologies, Tools and Techniques
   - Practical session on Structured Systems Analysis and Development Methodology (SSADM)
5. Application Development Testing
   - Different testing tools and techniques
6. Risks and Controls during the SDLC
   - Identify risk areas and,
   - Controls
7. How to perform Post-Implementation

EVALUATION METHOD

Group work – exercises and practical sessions feedback

WHO SHOULD ATTEND?

Internal audit all levels, IT Auditors, Risk management and staff; Also useful for managers to appreciate potential added benefits of Analytics to improve Business Intelligence.