Certified Information Systems Auditor CISA, Part 3 of 5: Acquisition and Implementation

Meet the expert: As a certified Microsoft Instructor, Ken has focused his career on various security aspects of computer and network technology since the early 1980s. He has offered a wide variety of IT training and high level consulting projects for Fortune 500 companies globally. Through the course of his extensive career, he has taught a full line of Microsoft, CompTIA, Cisco, and other high level IT Security curricula.

Prerequisites: This is part 3 of the series

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Course description: The focus of this course is on information systems acquisition, development and implementation. You as the CISA candidate provide assurance for the acquisition of information systems. Some of these tasks include: evaluate business cases, project management practices and controls, conducting reviews to determine project progression, evaluate controls for information services during all phases, evaluate readiness for implementation and migration and conduct post implementation reviews. This course is part of a series covering the ISACA Certified Information Systems Auditor (CISA).

Course outline:

Buisness Realization
- Introduction
- Portfolio/Program Management
- Program Management Objectives
- Program Organization
- Project Portfolio
- Business Case Development and Approval
- Business Case Development and Approval Continued
- Benefits Realization Techniques
- Summary

Project Management Structure
- Introduction
- Project Context and Organizational Forms
- Influece Project Organization
- Project Communication and Culture
- Project Objectives
- WBS and Work Packages
- Audit Function
- Roles and Responsibilities
- Summary

Project Management Practices
- Introduction
- Project Charter
- Project Planning
- Example of Project Management for New Software
- Software Size Estimation
- Lines of Source Code
- Function Point Analysis

- Function Points
- Cost Budgets
- Software Cost Estimation and Scheduling
- Gantt Charts
- Time Box Management
- General Project Management
- Project Controlling
- Management of Resource Usage
- Inherent Project Risks
- Management of Risk and Closing
- Summary

Business Application Development
- Introduction
- Business Application Development
- Reduce Project Risk
- Reduce Project Risk Continued
- Traditional SDLC Approach
- SDLC Phases
- ERP Solutions
- Description of SDLC Phases
- Description of SDLC Phases Continued
- Contents of an RFP
- Designing an RFP
- Choosing Vendors
- Design Phase
- Key Design Phase Activities
- Auditor Involvement in Design Phase

- Development Phase
- Development Phase Documentation
- Development Phase Continued
- Debugging
- Testing
- IT Approaches to Testing
- Final Testing
- Certification and Accreditation
- Other Types of Testing
- Implementation Phase
- Implementation Transition Phase
- Establish Support Functions
- Implementation Phase Continued
- Risk Associated with Software Development
- Summary

Business Applications Systems
- Introduction
- Electronic Commerce
- E-Commerce Architectures
- E-Commerce Requirements
- Components of PKI
- Electronic Data Interchange
- General Requirements of EDI
- Web-Based EDI
- Controls in EDI Environment
- E-Mail
- Security Standards for E-Mail

- Standards for E-Mail Security Continued
- Symmetric and Asymmetric Encryption
- Point-of-Sale Systems and Electronic Banking
- Ongoing Risk Assessment
- Legal and Reputational Risk Management
- Payment Systems and Electronic Checks Model
- Electronic Transfer Model
- EFT Security
- Automated Teller Machines
- Image Processing
- Imaging System Controls
- Business Intelligence
- DSS Frameworks
- CRM and SCM
- Supply Chain Management
- Summary

Alternative Forms of Software Project Organization
- Introduction
- Alternative Development Methods
- Agile Development
- Prototyping
- Rapid Application Development
- Summary

Data-Oriented System Development
- Introduction
- Data- and Object-Oriented System Development
- Object Creation
- Component-Based Development

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