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Your IT Audit and Information Security Partner

CISA Exam Preparation June 2015

Session 2 : 17 March 2015

Starting around 4:45pm



Agenda

- Introductions
 - Facilitator
 - Participants
- Recap on prep expected and provisional schedule
- Self Assessment discussion
- Chapter overview
- Challenges, Questions and answers
- Next Week
- Questions And contacts



Introductions

- **Facilitator**
- Justin Williams B.Com, B.Compt (Hons), CA(SA), MBA, CISSP, CGEIT, CRISC, CISA
- 1st in the World, CISA Dec 2014
- Director at ITSec
- Previously Head of Risk, Security, Governance and Compliance for Transnet Group

- **Participants**
- Name
- How was the first Chapter
- What was your most challenging activity of the week?



Recap on Prep for Week

(17/3/2015)

- What you need to do
- Read Chapter 1 (aim for the whole chapter)
- Make notes of things you don't quite understand
- Do the sample questions
- Flag those you get wrong, even if you know why you got them wrong
- Self Assessment
 - 50 questions*
 - Should take an hour*
 - <http://www.isaca.org/Certification/CISA-Certified-Information-Systems-Auditor/Prepare-for-the-Exam/Pages/CISASelfAssessment.aspx?id=100002>*
- Arrive on time (4:45pm Tuesday 17/3/2015)
- At ITSec offices, Forest Office 6, 15 Summit Drive, Sherwood, Durban

- Re-assess
- See how things are going
- See how all doing with the time commitment
- Decide if continue with two weeks per chapter or cover some chapters in one week



Provisional Schedule

10-Mar-15	Introduction (Complete)
17-Mar-15	Chapter 1 The Process of Auditing Information Systems
24-Mar-15	Chapter 1
31-Mar-15	Chapter 2 Governance and Management of IT
07-Apr-15	Chapter 2
14-Apr-15	Chapter 3 Information Systems Acquisition, Development and Implementation
21-Apr-15	Chapter 3
28-Apr-15	Chapter 4 Information Systems Operations, Maintenance and Support
05-May-15	Chapter 4
12-May-15	Chapter 5 Protection of Information Assets
19-May-15	Chapter 5
26-May-15	Revision
02-Jun-15	Sample Exam
09-Jun-15	Final Exam Techniques
13-Jun-15	Exam Date



Self assessment

- 50 questions
- Should take an hour


<http://www.isaca.org/Certification/CISA-Certified-Information-Systems-Auditor/Prepare-for-the-Exam/Pages/CISASelfAssessment.aspx?id=1000>

Thoughts to share

- How long did it take?
- How did you find the style of questions?
- What was your score? (optional)
- Which sections were most challenging?
- Did you get even results between the sections?

CISA Self-Assessment

CISA Self-Assessment



CISA is unique in the information security credential marketplace because it is designed specifically and exclusively for individuals who have experience managing an information security program. The CISA certification measures an individual's management experience in information security situations, not general practitioner skills. Earning the CISA designation designates you as a qualified information security management professional with experience and knowledge managing, designing and overseeing an enterprise's information security.

ISACA has prepared the CISA self-assessment to help CISA exam candidates assess their knowledge of the CISA job practice areas and determine in which information security areas they may have strengths and weaknesses. This self-assessment contains 50 sample items covering the appropriate proportion of subject matter to match the CISA exam blueprint. The items are not actual CISA exam items, but are representations of items that have appeared on the exam. Note that this self-assessment is not a substitute for the actual exam; our sites the result of the self-assessment test guarantee or indicate future individual success. For additional exam-detail coverage, review each area's tasks and knowledge statements.

This 50-question self-assessment is one of many tools that you can use to help prepare for the CISA exam.

Tips for taking the CISA self-assessment:

- If you don't know the answer to a question, do not guess; instead, skip the question so as not to bias your results. Unanswered questions will be counted as missed to give you a better indication for your areas of weakness.
- Practice answer the questions in sequence.
- After you complete the test, select "Check My Score" to receive your assessment results. Your results will consist of the percent correct in each exam content area.
- You can retake the CISA self-assessment as many times as you wish. However, before retaking the test, it is recommended that you review your prior results to study and learn more about the areas in which you were weakest. This process will help with obtaining a true picture of your competency in the different subject areas.
- After you have completed the assessment please take a moment to answer the survey questions. ISACA requests your feedback on this self-assessment.

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Enter your name below so it displays on the quiz results page:

Name: _____

1. A legacy payroll application is migrated to a new application. Which of the following stakeholders should be **PRIMARILY** responsible for reviewing and signing off on the integrity and completeness of the data before going live?

- A. IT auditor
- B. Database administrator
- C. Project manager
- D. Data owner

2. Upon receipt of the initial signed digital certificate the user will decrypt the certificate with the public key of the:

- A. registration authority (RA)
- B. certificate authority (CA)
- C. certificate repository
- D. receiver

3. An IT auditor discovers that devices connected to the network have not been included in a network diagram that had been used to develop the scope of the audit. The chief information officer (CIO) explains that the diagram is being updated and awaiting final approval. The IT auditor should FIRST:

- A. expand the scope of the IT audit to include the devices that are not on the network diagram
- B. evaluate the impact of the undocumented devices on the audit scope
- C. note a control deficiency because the network diagram has not been updated
- D. plan follow-up audits of the undocumented devices



Chapter 1 Overview

- 5 Tasks

1.1 Develop and implement a risk-based IT audit strategy in compliance with IT audit standards to ensure that key areas are included.

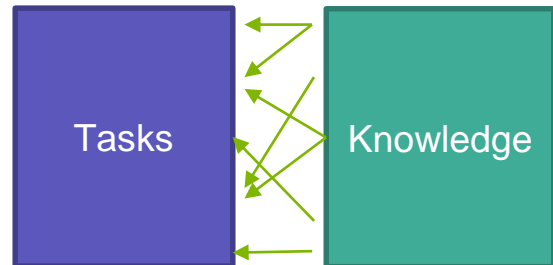
1.2 Plan specific audits to determine whether information systems are protected, controlled and provide value to the organization.

1.3 Conduct audits in accordance with IT audit standards to achieve planned audit objectives.

1.4 Report audit findings and make recommendations to key stakeholders to communicate results and effect change when necessary.

1.5 Conduct follow-ups or prepare status reports to ensure appropriate actions have been taken by management in a timely manner.

- Group Discussion on these



Chapter 1 Overview

- 10 Knowledge Statements

1.1 Knowledge of ISACA IT Audit and Assurance Standards, Guidelines and Tools and Techniques, Code of Professional Ethics and other applicable standards

1.2 Knowledge of risk assessment concepts, tools and techniques in an audit context

1.3 Knowledge of control objectives and controls related to information systems

1.4 Knowledge of audit planning and audit project management techniques, including follow-up

1.5 Knowledge of fundamental business processes (e.g., purchasing, payroll, accounts payable, accounts receivable) including relevant IT

1.6 Knowledge of applicable laws and regulations which affect the scope, evidence collection and preservation, and frequency of audits

1.7 Knowledge of evidence collection techniques (e.g., observation, inquiry, inspection, interview, data analysis, fraud investigation) used to gather, protect and preserve audit evidence

1.8 Knowledge of different sampling methodologies

1.9 Knowledge of reporting and communication techniques (e.g., facilitation, negotiation, conflict resolution, audit report structure)

1.10 Knowledge of audit quality assurance systems and frameworks



Chapter 1 Overview

- 1.2 Management of the IS Audit function (3 pg)
 - Organisation of the IS audit function
 - IS Audit resource management
 - Audit Planning
 - Effect of laws and regulations on IS Audit Planning
- 1.3 ISACA IS Audit and Assurance Standards and Guidelines (10.5 pg)
 - ISACA Code of professional ethics
 - ISACA IS Audit and assurance standards framework
 - ISACA Audit and assurance guidelines
 - ISACA IS Audit and assurance tools and techniques
 - Relationship among standards, guidelines, tools and techniques
 - Information Technology Assurance Framework
- 1.4 Risk Analysis (1.5 pg)
 - Part of audit planning, id risk & vulnerabilities so auditor can determine controls needed
 - *“potential that a given threat will exploit vulnerabilities of an asset and thereby cause harm”*
- 1.5 Internal Controls (3 pg)
 - IS Control Objectives
 - COBIT 5
 - General Controls
 - IS Controls



Chapter 1 Overview

- 1.6 Performing an IS Audit (14 pg)
 - Classification of audits
 - Audit programs
 - Audit Methodology
 - Fraud Detection
 - Risk-based auditing
 - Audit Risk and Materiality
 - Risk assessment and Treatment
 - Risk assessment techniques
 - Audit objectives
 - Compliance vs Substantive testing
 - Evidence
 - Interviewing and observing personnel in performance of their duties
 - Sampling
 - Using the services of other auditors and experts
 - Computer-assisted Audit Techniques
 - Evaluation of strengths and weaknesses
 - Communicating audit results
 - Audit Documentation



Chapter 1 Overview

- 1.7 Control Self-assessment (2 pg)
 - Objectives of CSA
 - Benefits of CSA
 - Disadvantages of CSA
 - Auditor role in CSA
 - Technology drivers for CSA
 - Traditional vs CSA approach
- 1.8 The evolving IS Audit Process (2.5 pg)
 - Integrated auditing
 - Continuous auditing
- 1.9 Case Study (and 1.10 answers) (2 pg)



Chapter 1 Challenges

- Specific issues raised by participants



Questions and Answers

- Which questions did the participants cover in the week?
- Which ones did you get wrong, lets discuss



Prep for Week 2 of Chap1

(24/3/2015)

- What you need to do
- Revise (or read/finish) Chapter 1
- Make notes of things you don't quite understand
- Do the sample questions
- Flag those you get wrong, even if you know why you got them wrong
- Arrive on time (4:45pm Tuesday 24/3/2015)
- At ITSec offices, Forest Office 6, 15 Summit Drive, Sherwood, Durban
- Broadcast live on Google Hangout on Air (check j-j.co.za for link)

- Re-assess
- See how things are going
- See how all doing with the time commitment
- Decide if continue with two weeks per chapter or cover some chapters in one week



Questions and Contacts

Questions ?

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Copies of slides :

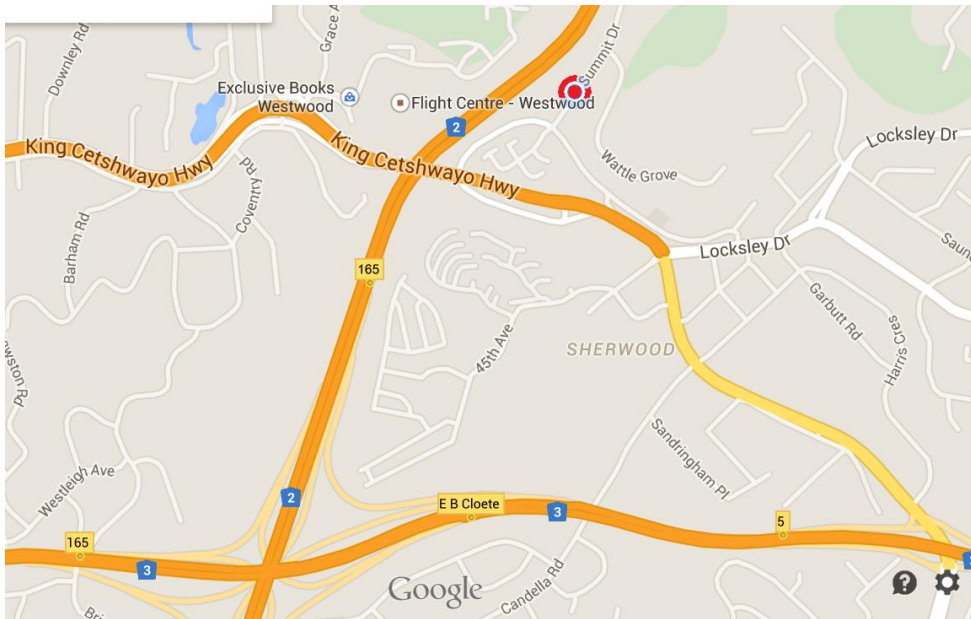
www.j-j.co.za

www.itsec.org.za



Location of ITSec

Forest Office 6
15 Summit Drive
Sherwood
Durban



Extra material

Study Materials

ISACA has prepared a variety of study resources in various languages to fully prepare for your CISA Exam. These include primary references, publications, articles, the ISACA Journal and other links.

Online Learning

ISACA eLearning Campus offers a variety of online learning courses for certification exam preparation and continuing professional education.

Review Courses

ISACA chapters in numerous countries offer CISA Review courses. View the Review Course list to determine if there is a course in your area, or contact your local chapter for additional courses. There will be courses in Durban, CapeTown & Jhb if demand exists.

Exam Preparation Community

ISACA created the CISA exam preparation community as a place for current CISA exam registrants to collaborate and study with other registrants within the ISACA environment.

Free online CISA Course

Cybrary has just launched a CISA online course, its free <http://www.cybrary.it/>

