

Summary Ch-6 Notes ISCA by CA Amruta Sherde

Auditing of Information Systems -

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Performing IS Audit Pro#

Introduction to IS Audit

Factors influencing orgⁿ towards controls & audit of computers
C-PEDD-CV

- Computer error costs
- Privacy
- Evolution of computer use
- Data loss - Orgⁿ costs
- Decision incorrect costs
- Computer Abuse costs
- Value of Comp Hardware, Software & Personnel

Impact of IS Audit function on organizⁿ
Enables Better achieve foll. 4 objectives

D-I-E-S

- Data Integrity Objective
- Asset safeguarding Objective
- Sys Effectiveness Obj
- Sys Efficiency Obj

Effects of computers on audit

- Changes to Evidence Collection
- Changes to Evidence Evaluation

ASS

Definition

IS Audit of IS environment may include 1 or both of following:

- 1) Assessment of internal controls within IS environment to assure validity, reliability & security of information & information systems.
- 2) Assessment of the efficiency & effectiveness of IS environment

D-PAILA

- Data Retention & Storage
- Printed output not available
- Audit evidence
- Input docs absent
- Legal Issues
- Audit trail non available
- system generated transactions
- Systemic Error
- Automated transactⁿ processing sys

IS Auditor

Skills generally expected
PK'S - USB - BP

- Professional technical qualifications & certifications
- Knowledge of business operatⁿ, practices & compliance req.
- IT strategies knowledge
- Understanding of Info. Risks & controls
- Knowledge of Professional Standards
- Knowledge of Best Practices of IT controls & sec
- BCP control's understanding
- Policy & Procedural control's knowledge

Auditors review risks relating to IT sys & processes. Some of them are:

FC - GPRS

- IT related frauds
- Security controls inadequate
- Governance poor
- Policies & practices ineffective
- Resource use inefficient
- Strategies ineffective

IS Audit

Types
MISS T

- Management of IT and Enterprise Architecture
- Info Processing Facilities
- Systems & Appⁿ
- Systems Dvpt
- Telecommⁿ, Intranet & Extranets

Steps in IS Audit
P-SPE-ARC

- Pre audit survey
- Scoping
- Planning
- Fieldwork (gather evidence)
- Analysis (sort, review & make sense of evidence coll.)
- Reporting to Management
- Closure

Interest limitations of IS Audit (in general)
C-GP (PORT)
Legal Noncompliance

IS Audit Info given by orgⁿ

- ISACA (IS Audit & Control Asso)
- IS Aud Stds
- IS Aud Guidelines
- IS Aud Procedure
- COBIT
- ISO 27001

Internal Audit Standards by Institute of Internal Auditors

Stds on Internal Audit by ISAI

- ITIL (IT Infra Library)
- Time reasonable
- Related Party Trans
- Cost reasonable
- Going concern ceased due to future events
- Frauds (particularly Senior Mgt/collusion)
- Persuasive Audit Evidence
- Omission of Audit Procedure Not possible

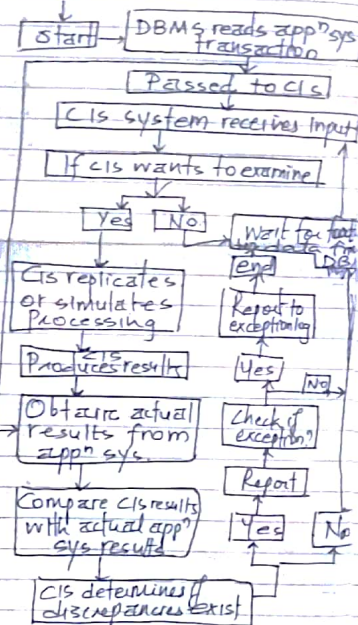
Performing IS Audit

Types of Audit Tools & Types of CATS - Continuous Audit Technique

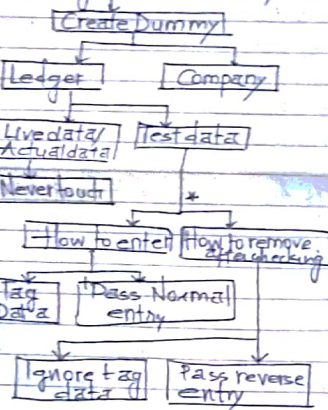
- Audit Hooks (flag suspicious tm)
- Integrated Test Facility

HIS-OS

- Continuous & Intermittent Simulation (CIS)



- Create Dummy



- Snapshots (Use images to assess authenticity, accuracy & completeness of processing carried out on transt)

- SCARF (System Control Audit Review File)

- SCARF used to collect following types of info:
 - Variances - Policy & Procedures
 - Exceptions in Systems
 - Profiling Data
 - Records extension
 - Errors in app's system
 - Statistical sample
 - Snapshots

Advantages of CATS - DT-CIT's

- Detailed Auditing Evidence
- Timely Auditing Evidence
- Comprehensive Auditing Evidence
- Info to staff on meeting Objectives
- Surprise test capability
- Training new users

Disadvantages/Limitation of use of Continuous Audit Technique

- It is used by IS Auditor
- Materiality & Significance (Financial Audits)
- Significance (Performance Audits)
- Used to plan both effective & efficient audit procedures
- Used to determine the planned nature, timing & extent of audit procedures
- On basis of M&S, some areas may be very imp. not material
- Hence, some may warrant less time
- It is iterative

Audit Testing

- Auditor determines nature, timing & extent of testing
- Auditor to devise audit testing plan & methodology to determine controls effectiveness
- CATs can be used to audit
- Test with both valid & invalid data to check ability to detect error
- Check extent of error def/corr/pre

- 5 Ways of validation
- Key audit concern is that sensitive data to reveal

Risk based approach to make Audit Plan

- Inventory sys in use
- Categorise em or assets.
- Determine sys impacting critical functions
- How close to real time do sys operate
- What risks affect? severity of impact
- Decide priority, resources, schedule, etc

Basic Plan

- Extent of planning varies according to size, complexity, experience & knowledge of b.
- Knowledge of business.
- Discussion of elements of Audit Plan with Audit Committee/Mngt/staff to improve eff. of A Plan.
- Auditor's responsibility: develop & doc. the Plan.
- Vary as per specific Methodology & tech. used by auditor.
- Iterative.
- Plan → Underlying Program & A. Methodology

Preliminary Review

- Risk Assessment }
- Materiality }
- Technology understand [7]
- ICS understand.
- Legal considerations }
- Audit standards }
- Knowledge of business [6]

Audit Risks — Inherent, Control & Detection

Auditing of IS



Refer PM

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