



The Institute of Chartered  
Accountants of India  
(Setup by an Act of Parliament)

18 CPE HRS

## **DIGITAL ACCOUNTING & ASSURANCE BOARD**

**6 days Executive Development Program on**

### **PRACTICAL GUIDE TO ISA**

on 26 September - 01 October 2020 from 5-8 PM through Digital Learning Hub of ICAI

**Fees: Rs. 3000/- (+18% GST) per participant**

#### **Program Objective**

- This session is designed for all the participants who have successfully cleared DISA ÈT or AT who want to do System's Audit. This session will help in performing Vulnerability Analysis to identify security loopholes in the target organization's Network, communication infrastructure, and end systems.
- Will explore the world of Cyber Security Audits for the Members by giving a practical hands on experience by using free open source tools.
- Will help in understanding the terminologies of the System Audit, performing system audit as per regulators requirements (RBI, SEBI, IRDA), Also understand & execute the various checklists given by the regulators for system audit.

#### **Course Material - Participants shall be given:**

- Realistic data files
- Brainstorming and creative exercises
- Open Source Tools
- Over 5 GB of materials would be provided in the form of: PowerPoint slides (step by Step Instructions on operating the tools), open source software, Video tutorials

***Register through <https://learning.icai.org>***

#### **Program Structure**

##### **Module 1**

- Basic terminologies in ISA
- Recent Cyber threats: Net Banking Frauds and their Modus Operandi
- Ransom ware – Crypto Locker, Crypto jacking



## Module 2

- Need for systems audit
- Opportunities for CA's in System's Audit
- Which regulator's In India has made system audit compulsory
- Whom & How to approach for system Audit.
- Basic Steps to conduct the System's security audit
- Concept of IP (External, internal etc.)
- Proxy IP / VPN
- Creating network diagrams / network architecture using IP
- Executing Email Security checklist in a practical manner
- Executing PC/laptop Security checklist in a practical manner

## Module 3

- Questionnaire to be sent before starting the system audit
- Understanding the Request for Proposal (RFP) of System audit sent by Banks & other regulators
- Understanding the scope of work

## Module 4

- How to send proposal to do System audit (Sample formats)
- Commercial tools/software's used in ISA (Practical Demo's)
- Free open source tools/software's used in ISA(Practical Demo's)

## Module 5

- Information Gathering of website/ network
- Cryptography fundamentals, different types of cryptography ciphers, Public Key Infrastructure (PKI), cryptography attacks and cryptanalysis tools.



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## **Module 6**

- Executing Wi-Fi security checklist in a practical manner
- Server hardening & security checklist
- Vulnerability assessment, and penetration testing ( VA-PT) roadmap

## **Module 7**

- Understanding Kali Linux: open source OS
- Network scanning using Kali Linux
- Executing ISA using Kali Linux tools
- Web application audits ( practical demo's)
- Web application audit using OWASP top 10 standards (SQL injection etc.
- Analyzing the key findings generated from the software's
- Checklist for System audit
- Understanding cyber security framework of RBI
- Auditing using IRDA cyber security audits checklist
- Auditing using SEBI cyber security audits checklist
- What is to be included & excluded in the final report
- Presenting the final report of system's Audit
- What is to be included & excluded in the final report
- Presenting the final report of system's Audit

**Digital Accounting & Assurance Board**

**The Institute of Chartered Accountants of India**

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