

Committee on Information Technology The Institute of Chartered Accountants of India

ISA COURSE 2.0 DVD Ver. 1.0

(Set up by an Act of Parliament)

ISA: Information Systems Audit COURSE 2.0

Overview of Module 1

Overview of Module1

Key focus of ISA Course 2.0 Objectives of ISA Course 2.0 Modules of ISA Course and weightage **E-Learning options** Learning Objectives, Task and Knowledge statements Chapters, Parts and Sections

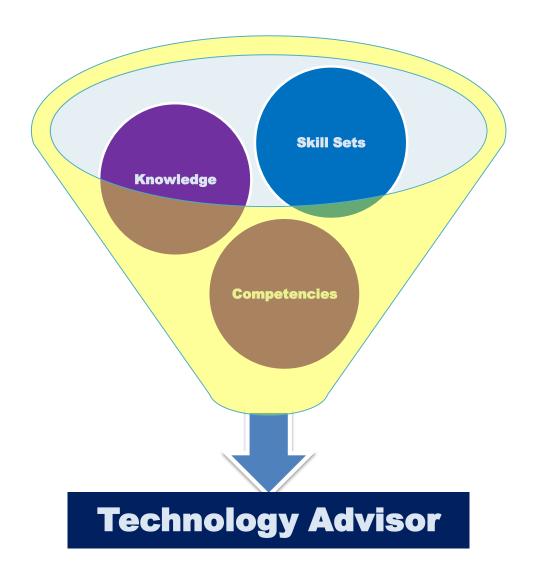
Key focus of ISA Course 2.0

Provide relevant practical knowledge and Skills for planning and performing

Governance, Risk,
Compliance, Assurance
and Consulting
assignments

Using relevant standards, frameworks, guidelines and best practices

Unique Body of Knowledge



Objective of the ISA course 2.0

"To provide relevant practical knowledge and skills for planning and performing various types of assurance or consulting assignments in the areas of Governance, Risk management, Security, Controls and Compliance in the domain of Information Systems and in an Information Technology environment by using relevant standards, frameworks, guidelines and best practices."

Modules of ISA Course 2.0 and weightage

Mod.	Modules for Revised ISA Course	%
1.1	Primer on Information Technology, IS Infrastructure and Emerging Technologies - Online	12
1.2	Primer on Information Technology, IS Infrastructure and Emerging Technologies - Facilitated	6
2	Information Systems Assurance Services	12
3	Governance and Management of Enterprise Information Technology, Risk Management and Compliance Reviews	12
4	Protection of Information Systems Infrastructure and Information Assets	18
5	Systems Development: Acquisition, Maintenance and Implementation.	12
6	Business Applications Software Audit	12
7	Business Continuity Management	6
	Project report on IS Audit	10

E-Learning of module-1

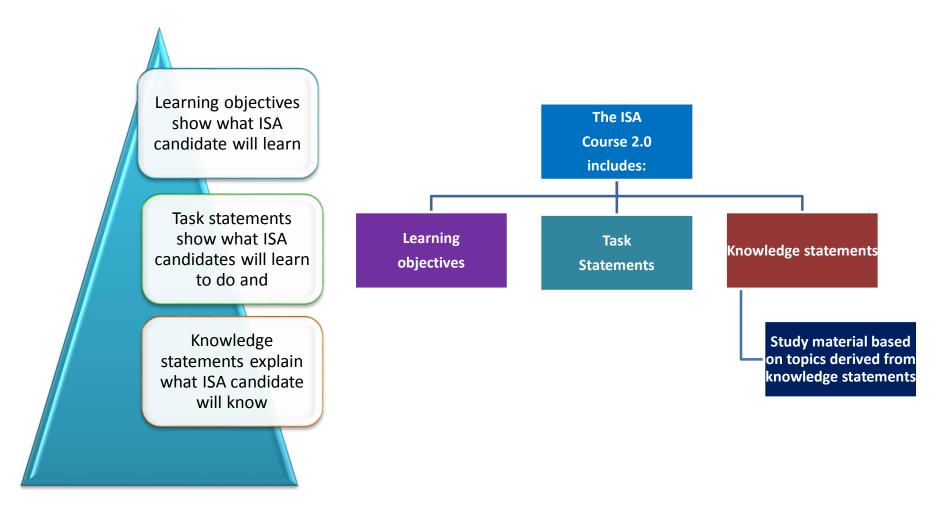
Module-1: Primer on Information Technology, IS Infrastructure and Emerging Technologies (18%) includes:

E-Learning (12% to be studied online) before joining the class – 12 hours

Facilitated E-Learning (6% covered in class room training) – 6 hours

• 4 Sessions of 90 minutes in class room.

Learning objectives, Task and Knowledge statements



Module 1: Primer on Information Technology, IS Infrastructure and Emerging Technologies - Objectives:

Demonstrate understanding of functioning of key components of existing and emerging information **Technologies** and their practical deployment

Task Statements

- 1.1 Identify deployment of different components of IT and their functions: Computer Hardware, Operating system software, database management software, application software, middleware, Client Server Model, Communications technologies and networks, internet, peripherals, devices, accessories, etc.
- 1.2 Recognise the configuration of hardware, operating system software, database management software and application software.
- 1.3 Recognise function of Telecommunications and Network security including wireless, encryption, firewalls, Cryptography etc.

Task Statements

1.4 Analyze baseline security procedures, firewall configurations, user administration and user management.

1.5 Distinguish the technology architecture of a typical data centre in a centralised environment and ERP Software identifying different layers/components of technology and their functions.

1.6 Consider the impact of deployment of key existing and emerging technologies such as: XML, XBRL, Cloud computing, Geo Location, Mobile computing, Social media, Bring Your Own Device (BYOD), Business Intelligence (BI), Big Data, Network Technologies – web services, Web 2.0, Data warehouse, Data Mining, Data Mart, Decision Support Systems (DSS), Executive Support Systems (ESS), Artificial Intelligence (AI), Electronic Funds Transfer (EFT), Electronic Transactions, Green IT, etc.

Knowledge Statements (Knowledge of)

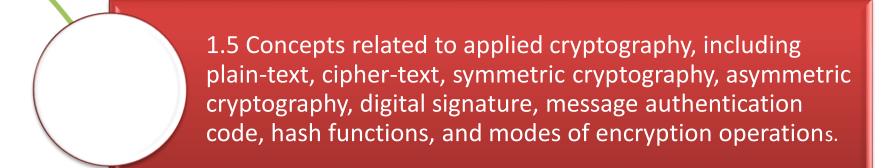
1.1 Information Technology components of Information Systems Infrastructure and related processes in the context of practical deployment in enterprises.

1.2 Fundamental concepts of different components of IT and their functions: Computer Hardware, Operating system software, database management software, application software, middleware, Client Server Model, Communications technologies and networks, internet, peripherals, devices, accessories, etc.

1.3 Configuration management of hardware, system software, database management software and application software.

1.4 Telecommunications and Network security including wireless, encryption, firewalls, Cryptography etc.

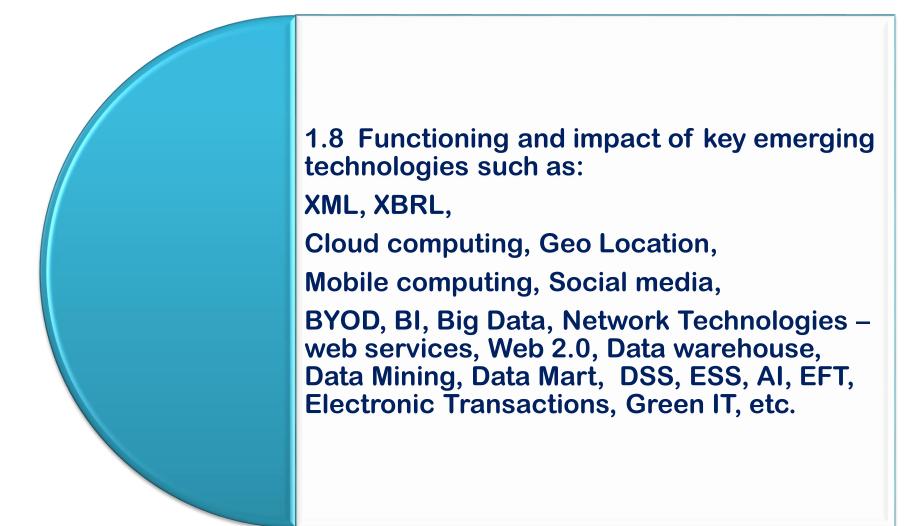
Knowledge Statements (Knowledge of)



1.6 Baseline security procedures, firewall configurations, user administration and user management.

1.7 Information Technology components of a Data centre in centralised environment/ERP software.

Knowledge Statements (Knowledge of)



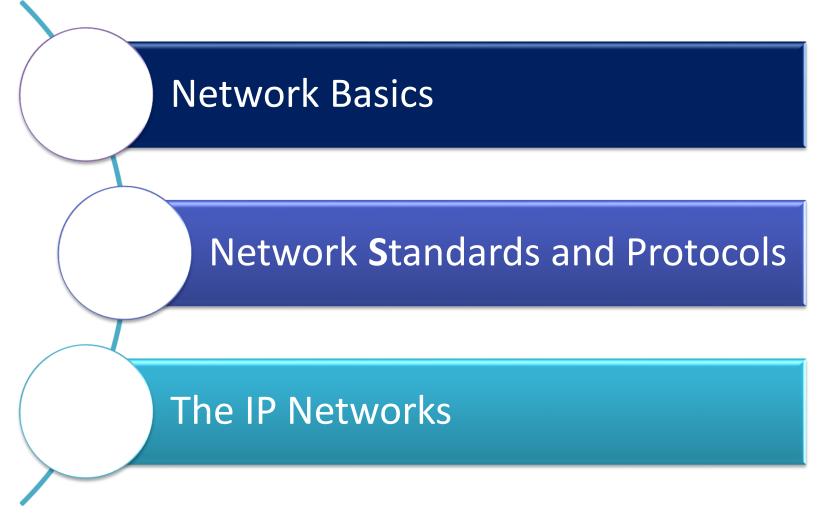
Chapters of e-Learning of Module-1

1. Introduction to Computer Hardware and Software 2. Introduction to Computer Networks 3. Securing Networks

Parts of Chapter 1: Introduction to Computer Hardware and Software

1. Introduction to Computer Hardware and Software 2. Systems Software 3. Data Base Management Systems 4. Hardware/Software Deployment Strategies

Parts of Chapter 2: Introduction to Computer Networks



Parts of Chapter 3: Securing Networks

1. Firewalls

2. Configuring Personal Firewalls and IDS

3. Cryptography and PKI

4. Application of Cryptographic Systems

Sections of e-Learning contents

Section-1: Introduction Section-2: Chapters Section-3: Appendices

Thank you!

Questions?

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