



The Institute of
Chartered Accountants
of Pakistan

CA
PAKISTAN

TECHNOLOGY ASSURANCE CERTIFICATE

KEY TO YOUR CAREER ADVANCEMENT

EMPOWERING PROFESSIONALS TO CONFIDENTLY NAVIGATE THE
EVER-EVOLVING DIGITAL LANDSCAPE.

by **Digital Assurance & Accounting Board**

Changing Role of Auditors in the Technological Era

The role of auditors has been changing rapidly in the era of technology. Technological advancements have made it possible for businesses to automate many of their processes, which has led to increased efficiency and accuracy in financial reporting. However, it has also created new risks and challenges that auditors must address. To address such risks and challenges auditors need to upskill themselves in the following areas:





Investors and regulators alike will expect auditors to be experts in technology and all the ways it can enhance the audit process. At the same time, clients will demand an audit experience that only a tech-enabled audit can offer.

As digital technologies and data analysis become increasingly central to the audit process – as well as to companies' business models – audit firms will require a more diverse range of skills. They have traditionally recruited people with business backgrounds but, in the future, all auditors will need an increased level of technological understanding.

As organizations push the bounds of disruption, internal audit functions are evolving their approaches to not only deliver assurance to stakeholders but to advise on critical business issues and better anticipate risk. Are you ready for the future of internal audit?

Are you ready for the future of audit?

In summary, technology has had a significant impact on the role of auditors. Auditors must now have a solid understanding of IT systems, cybersecurity risks, and data analytics to perform their duties effectively in today's digital age.

Program Overview:

Digital Assurance and Accounting Board of ICAP has designed first of its kind, Technology Assurance Certificate, program to provide nexus between finance and evolving needs of Information Technology.

Technology Assurance Certificate, is specifically tailored to acquaint and equip professionals with the skills and knowledge required to effectively assess and improve the security and risk management of their organization's technology systems.

The Program is designed to provide an understanding of the concepts, principles, and best practices associated with technology assurance. The program covers a wide range of topics, including Cybersecurity, Risk Management, Auditing, Compliance, and Information Governance.

Upon completion of the course, participants will be able to identify and evaluate potential risks to their organization's technology systems, implement effective security controls, and ensure compliance with relevant regulations and standard

Program Format:

Technology Assurance Certificate course is delivered by experienced professionals both onsite and online. The course spans over 48 hours and includes a combination of pre-class reading material, handouts, quizzes, case studies and hands-on exercises followed by mock exam and final assessment.

Target Audience:



For Chartered Accountants and Affiliates or any Finance professional with an Audit Background.



IT Professional with Audit Understanding.



Risk Management Professionals



IT & IT Security Professionals.

Course Objectives:

- ✓ Understand the Role of IT in Organizations and the Importance of IT Audit and Assurance.
- ✓ In-depth Knowledge of IT Governance, IT Risk Management, and IT Controls.
- ✓ Understand IT Security, IT Compliance, and the Regulations that Govern them.
- ✓ Learn About the Technology and Tools used in IT Audit and Assurance.
- ✓ Gain Practical Experience in IT Audit and Assurance through Case Studies and Hands-On exercises.

Skills and Knowledge Gained:

- ✓ Understand the Principles and Practices of Information Technology and Audit.
- ✓ Identify and Evaluate Potential Risks to Organization's Information Technology Systems.
- ✓ Implement Effective Security Controls.
- ✓ Ensure Compliance with relevant Regulations and Standards.
- ✓ Conduct IT Audit and Prepare Reports.
- ✓ Understand IT Governance.

Course Content and Learning Outcomes:

Domain 1: Role of Technology Auditor & the Technology Auditing process

- ✓ Prepare an IT Audit Program in accordance with IT Audit standards & Framework and a Risk-Based 2S Audit Strategy
- ✓ Conduct Annual and Periodic Risk Assessments and Plan Risk-Based IT, Audit Engagements, considering Effects of Laws and Regulations on IT Audit Planning.
- ✓ Understand the Concept of Risk Based 2T Auditing including Inherent, Control, and Detection Risks.
- ✓ Definitions of Different types of Audits, including Integrated IT Audits, and How to determine whether Information Systems are Protected, Controlled, and Provide Value to the Organization.
- ✓ Understand the Difference between Continuous Monitoring and Continuous Auditing in 2T Audits
- ✓ Appreciate the Role of IT Auditor in the Audit Team
- ✓ Appreciate the Role of Financial Auditors in Communication of IT Audit Progress, Findings, Results, and Recommendations to Stakeholders.
- ✓ Understand the Management of IT Audit Function, IT Audit Charter and its Contents.
- ✓ Understand IT General Controls, and How to Test them using Sampling and Data Analytics, Evidence Collection and Analysis.
- ✓ Managing the Audit Project – Planning, Reporting, Communications, Documentation, Quality Assurance.
- ✓ Know Global IT Audit Standards, Frameworks (IIA, ISACA, etc.), Regulatory Guidelines, Codes of Ethics
- ✓ Understand the Difference between IT Compliance/Design Testing and IT Substantive/Operational Effectiveness Testing.
- ✓ Conduct Audit Follow-up to Evaluate whether Risks have been Sufficiently Addressed.

Domain 2: Technology Governance and Risk Management

- ✓ Understand the Role of Governance Function in Creating Value for the Organization
- ✓ Comprehend GRC and IT Governance, its Relationship to Corporate Governance, know what Drives IT Governance and Who is Responsible for it.
- ✓ Understand the IT Governance Structures and the Three Lines of Defense (3LoD), including the Role of the Board, Senior Management, Internal/External Auditors and Regulators in IT Assurance Practices.
- ✓ Gain Familiarity with Various Global IT Governance Frameworks & Standards (COBIT, 2SO Standards, ITIL).
- ✓ Understand the Importance of IT Strategic Planning, Alignment with Business Strategies and the Responsibilities of the IT Strategy Committee and the 2T Steering Committee.
- ✓ Gain Knowledge of different IT Policies and Procedures, and the Areas of Focus when Reviewing IT and Related Security Policies
- ✓ Gain Understanding of SBP and SECP Requirements for IT Governance, including Overview of SBP's Enterprise Technology Governance & Risk Management Framework for Financial Institutions.

Domain 3: Information systems Acquisition, Development and Implementation

- ✓ Know Alternative forms of System Development Methodologies – SCRUM, Agile, Incremental and Alternative Development, Prototyping.
- ✓ Understand the Major Risk of any Software Development Project.
- ✓ Understand the Phases of the Traditional SDLC Approach and What Auditor should Focus be in SDLC

Domain 4: IT Infrastructure, Operations and Support

- ✓ Understand the Types of Backups, Related Storage Options and How to Audit them.
- ✓ Know How to Audit Software Licensing and its Importance.
- ✓ Know IT Network Infrastructure.
- ✓ Auditing Infrastructure and Operations and Relevant Documentation.
- ✓ Appreciate the Complexity of Network Infrastructure Security.
- ✓ Understand the Difference between Routers, Switches and Modems.
- ✓ Understand VPNs and Virtualization, the rationale for Remote Access and their Risks for an Organization.
- ✓ Understand the Security Threats and Risk Mitigation Techniques for Wireless Networking.

Domain 5: Digitalization, Emerging Technologies and Management of IT

- ✓ Understand ERP Fundamentals, Concepts, Principles and when to use IRPs.
- ✓ Analyze the Adequacy of ERPs Processes, Key Application Controls, Integration Controls and Security Controls and Identify Improvements.

Domain 6: Business Resilience

- ✓ Understand the Difference between Business Continuity Plan (BCP) and Disaster Recovery Plan (DRP).
- ✓ Comprehend Business Impact Analysis of the Business Functions, and the Classification of Risks for Systems (Critical, Vital, Sensitive, Non-sensitive).
- ✓ Know the Criticality to Auditing Business Continuity, how to review BCP and the Test Drills.
- ✓ Understand Disaster Recovery Planning Process and Test Drills

Domain 7: Data Privacy, Information and Cyber Security

- ✓ Understand the Importance of Information Security Management for Confidentiality, Integrity and Availability, Physical Access and Environmental Controls, Identity and Access Management, Network and End-point Security.
- ✓ Learn the Key Elements in Information Security Management and their Key Controls.
- ✓ Understand Information Security Management Roles and Responsibilities
Comprehend Logical Access and its Criticality as Primary Means used to Manage and Protect Information Assets.
- ✓ Learn access control models such as Mandatory access controls (MACs) and discretionary access controls (DACs)
- ✓ Learn Common Cyber-Crime Issues and Exposures.
- ✓ Information System Attack Methods and Techniques.
- ✓ Information Security Event Management: Security Testing Tools and Techniques, Security Monitoring Tools and Techniques, Incident Response Management, Evidence Collection and Forensics.

Meet the Advisor



Hussein Hassanali

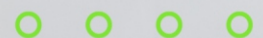
CIA | CISA | CISM | CGEIT | CRISC | CDPSE.

GM - Head, IT Audit
Habib Bank Limited

Hussein Hassanali, CIA, CISA, CISM, CGEIT, CRISC & CDPSE, is currently the General Manager & Head of IT Audit at HBL – Pakistan’s largest private bank, and President of the ISACA Karachi Chapter. He is an experienced, hands-on Governance Professional with over 25 years of international experience of Information Security, Assurance, Risk Management and Compliance. Earlier, as Chief Information Security Officer of Bank AL Habib Limited, and in senior roles with Ernst & Young (UK) and Aga Khan Development Network (AKDN).

For his efforts in promoting Technology Governance, IT Assurance and Information Security for over 26 years, Hussein was awarded a “Life Time Achievement Award” at InfoSec 2021. He has served the assurance and technology community from ISACA and IIA’s platforms with leading roles at the Karachi Chapter.

Presently he is also a member of FPCCI’s Cyber Crime Prevention Standing Committee; Member of the Academic Council of UIT University; one of three Screening Committee members and mentors of the Sindh Research Technology Incubation Centre established by IBA-CICT and Government of Sindh; Member of the Advisory Boards of Pakistan Freelancers Association (PAFLA), and CISO Forum.



Meet the Trainer

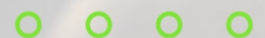


Zainab Hameed

EdTech - Founder
TeeSquare - Co Founder
ISACA - IT Governance Chair

Zainab Hameed is the IT Governance Chair and She Leads Tech Liaison for ISACA Karachi Chapter. After being associated with GSK, Engro Foods and Ernst & Young Global in senior management roles of IT for last 2 decades, she has ventured into entrepreneurship and has started TeeSqaure, an edTech company and runs STRATAG – an IT Governance and IT Security consulting firm.

An entrepreneurial and achievement driven IT professional, Zainab has worked across board in IT including Technology Management, IS Governance, ERP Implementation, Program Management, Information Systems Security and has won local and international ICT awards. She is Project Management Professional (PMP), Certified IT Governance professional and IS Auditor, and an alumna of FAST And IBA, Karachi.





Meet the Trainer



Naushad Siddiqi

Head of Technology Audits
Sui Southern Gas Company (SSGC)

Naushad Siddiqi is the Head of Technology Audits at Sui Southern Gas Company. He is an experienced, delivery focused Assurance, Governance and Information Security Professional with over 27 years of diverse International and local industry experience, specializing in Enterprise Systems Development, IT Project Management, IS Audits, Risk Management, IT Governance, BCP / DRP, Policies development, ISO Standards Implementation.

Naushad is an alumnus of FAST, and also possesses international credentials such as Certified IS Auditor (CISA), Certified in Risk & Control (CRISC), Certified in Emerging Technologies (CET), PMP, ITIL, ISO 27001 LA.

He is a visiting faculty member of NED University and also delivers workshops on Information Security, Audit topics at different forums. He is an ISACA / APMG Accredited Trainer for CISA, CRISC & CET, and is also part of ISACA Karachi Board as Chair CISA program.



Meet the Trainer



Aamir Shaukat Hussain

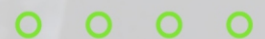
Founder & Partner
Value Source LLP

Aamir Shaukat Hussain is a Chartered Accountant with 17 years of professional experience. He is a public speaker, certified trainer, LinkedIn influencer and a mentor. Aamir has provided trainings through platforms such as International Finance Corporation (UK), Association of Certified Fraud Examiners (Oman), Aga Khan Development Network, The Institute of Bankers Pakistan and The Institute of Chartered Accountants of Pakistan.

Aamir also provides training to the Board of Directors of listed companies on emerging topics such as Enterprise Risk Management and GRC as part of Directors Training Program. He has served renowned universities in Pakistan as motivational speaker.

He distinguishes himself by providing practical and interactive trainings and workshops with a tag line 'Just Practical - No Theories'. Aamir has been a board member at Aga Khan Agency for Habitat and is serving at various professional member committees at The Institute of Chartered Accountants of Pakistan.

Formerly, he was working as Senior Vice President at United Bank Limited. Before joining United Bank Limited Aamir was associated with PwC and Habib Bank Limited.



Details	Technology Assurance Certificate
CPD hours	48 hours
Classroom + Exam Prep + Mock	40 + 4 + 4 hours
Dates	Classes Commencing from January 13, 2024
Time	Online via Zoom: Saturday and Sunday 10:00 am to 2:00 pm (PST)
Course Pre-Requisite	Audit Background and knowledge is required
Course Guidelines	<ol style="list-style-type: none"> 1. Minimum 75% attendance is to be maintained to be eligible for the assessment. 2. Camera's to be turned ON during the lecture for attendance. 3. Certificate will only be awarded to participants meeting 75% attendance along with passing criteria of assessment. 4. No Transfers or referrals allowed during the course. 5. The sessions will not be recorded; hence participants are advised to prepare their own notes.

Course Fee:
Members/Affiliates **Rs. 65,000 + Tax**
Non Members **Rs. 70,000 + Tax**

Registration will only be subject to receipt of payment

Registrations are on first come first serve basis, subject to payment only, and registrations will be closed as soon as the class size is filled.



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Register now

For further Inquiry or details:

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