



Cyber Security Course Outline

by Mr. Nahil Mehmood, Mr. Attaullah Memon, and Mr.

Information Security Challenges & Regulatory Perspective

- Cyber Security fundamentals
- Challenges and how to overcome them
- Current posture of cyber security and target state

Successful Security Program Implementation

- How to implement a successful security program?
- Security lifecycle & Governance
- 8-step security implementation methodology

Security Hardening - International Best-Practices & Benchmarks:

- DISA security STIGs (Security Technical Implementation Guides) & CIS (Center for Information Security) Benchmarks
- Cloud Security Alliance (CSA) and Open Web Application Security Project (OWASP)
- Vulnerability management (VM) through NNESSUS overview
- Security Standards & Frameworks:
- ISO 27001: 2013 Information Security Management System – Overview and its advantages
- Other Information Security standards/frameworks (PCI, NIST, SANS)
- SBP laws and regulations regarding information security

Application of Prevention of Electronic Crime Act, 2016, on the Banking Industry

- Significance of PECA 2016.
- Felonies through Alternate Delivery Channels
- Scenarios invoking the criminal Law
- Banking: The Critical Information Infrastructure
- Financial embezzlement: inspect, detect, analyze and prevent



Digital Forensic Evidence in Bank Information Systems

- Is Electronic Information valid Evidence & Locating the Digital Evidence
- Securing and Analyzing Information Repository & Meta Data
- Forensic Analysis of Bank Information Systems & Forensic documentation
- Evidence Admissibility before the Court
- How to exhibit the Digital Evidence in Court?

Case Studies

- a. Infrastructure Security Hardening
- b. ISO27001 (ISMS) Implementation Project
- c. Regulatory Case Study 1
- d. Regulatory Case Study 2
- e. Digital Forensics- Connecting the Dots- Case Study
- f. Digital Forensics- The Court Evidence- Case Study

Profile of Trainers

Mr. Nahil Mahmood

Mr. Nahil Mahmood was awarded the (ISC2) Asia Pacific Information Security Leadership Achievement Award (ISLA) in July 2012 for his significant contribution to the field of Information Security in Pakistan. He has 20 years of experience in IT & Information Security in Pakistan.

Nahil is CEO of Delta Tech and has led security consulting and implementation projects as a principal consultant for financial institutions, telecoms, utility sector, government, armed forces, and industry players. He has held various Information Security leadership positions such as Founding President of Cloud Security Alliance (Pakistan), Chapter Leader of Open Web Application Security project (OWASP), and he is currently Chairman of the newly formed Cyber Security Association Of Pakistan.

Nahil was formerly the CISO (Chief Information Security Officer) at MCB Bank, and he has held senior positions at IBM Pakistan, Wateen Telecom, and World Call Telecom Group. He has trained hundreds of security professionals in Pakistan and abroad through his online network security courses. He also speaks frequently at local and International IT conferences, and is recognized as the best conference moderator in the country. Nahil is recognized as a key figure in the Information Security community in Pakistan, and he has led a number of security hardening and ISO27001:2013 implementation projects for organizations of all sizes in Pakistan.



Attaullah Memon

Mr. Mr. Attaullah Memon has more than 8 years of core experience in different national and multinational level organizations in Pakistan. During his working period at SBP, he has been attached to the inspection department throughout and have thoroughly gone through IS and financial audit of different banks of Pakistan; Core banking systems audit, complete review of design and implementation of bank's networks, computer operations, business analysis, IS/IT security issues, BPR, BCP, systems designs, project management and implementations have been my area of proficiency in IS Audit. He has been thoroughly inspecting the areas of corporate and consumer loans from initiation to classification and write off, review of Basel II implementation status at different banks in light of regulatory requirements, complete branch banking operations, complete review of financial statements of different banks, major avenues of earnings and majorly the compliance of all regulatory requirements while conducting financial inspections. Knowledge blend of IT and business, **MBA from SZABIST** along with **Bachelors in Information Technology from University of Huddersfield, UK** with related business knowledge enabled him to deliver, analyze and implement the business solutions and controls timely and cost-effectively. Further, Mr. Attaullah holds the professional qualification of **CISA (Certified information system auditor)** and also a member of IIA (Institute of Internal Audit), USA to keep abreast him with the latest tools and methodologies of audit and inspection.

Mr. Aun Abbas

Mr. Aun Abbas has over 15 years of Information Security related experience in public and private sector organizations. He started his professional career as a Network & Systems Programmer and developed a first ever Cross-platform application for Windows, Linux and Solaris environments, at a public sector organization. He is among the first team to assemble and finetune the SGI Super Computers in Pakistan. In year 2004, Mr. Aun Abbas became the first Head of Information Security Division at NESCOM, which he established in accordance with International standards. He also designed & deployed mission critical and hybrid computer networks linking 40-distant locations nationwide. Mr. Aun joined FIA 9 years ago as a pioneer member of NR3C-FIA and played a key role in establishing the first ever Digital Forensic Laboratory in Pakistan. He is the author of around 450 Forensic Reports, majority of which led the case towards conviction of criminal elements. He has significantly contributed in the drafting of Prevention of Electronic Crime Act 2016. Mr. Aun has designed and delivered a number of lectures and trainings for the officers of Judiciary, Prosecution, Police and Intelligence, on Law, Digital Evidence and technical investigation. Mr. Aun Abbas, has represented Pakistan at various international forums and participated in a number of



investigations of national importance. Being a member of the elite Law Enforcement Agency, he plays a prominent role in countering Computer Emergency incidents in the country.