



Diploma Program

# **ADVANCED CYBER SECURITY**

Empowering leaders for tomorrow's cyber defense landscape























# **Learning Outcomes:**

Upon completion of the program, participants will be able to:

- · Cyber Threat Modeling & Risk Assessment Learn to identify, evaluate, and mitigate cybersecurity risks using industry frameworks like MITRE ATT&CK and NIST RMF.
- Cybersecurity Governance & Policy Development Create security policies and governance frameworks aligned with regulatory requirements.
- Risk Management & Compliance Apply ISO 27001, NIST, GDPR, and PECA for cybersecurity governance..
- Cybersecurity Policy & Strategy Development Case study presentations allow teams to create and refine security policies based on real-world scenarios.
- Ensure Business Continuity & Disaster Recovery Design and test BCP/DRP strategies for organizational resilience
- Strengthen Cloud & Enterprise Security Implement security controls for AWS/Azure and monitor enterprise security operations.
- Secure Web & API Applications Conduct in-depth API security testing beyond OWASP Top 10 using Postman and Burp Suite.
- Execute Advanced Ethical Hacking & Pentesting Perform real-world exploitation on Windows, Linux, cloud, and IoT environments.























# **Course Topics**



#### Cybersecurity Governance, **Compliance & Risk Management**

- Advanced Threat Intelligence
- Emerging Attack Vectors (Al-powered Attacks, Deepfake Exploits)
- Threat Actors & Cyber Warfare
- Hands-on: Develop a Security Plan
- Cyber Risk Quantification
- Real-world Risk Assessment Lab
- Legal Frameworks & PECA Updates
- Practical Case Studies
- Hands-on: Security Roadmap Design
- Security Monitoring in Enterprises



#### Cybersecurity Standards, **Compliance & MITRE ATT&CK**

- Understanding Frameworks & Compliance
- Hands-on: ISMS Policy Creation
- Practical Risk Assessment
- Adversary Tactics & Techniques
- Hands-on: SIEM & Security Monitoring
- GDPR, PECA, and Data Breach Handling
- Audit Simulation & Reporting
- Real-World Security Governance Case



#### **Advanced Ethical Hacking & Penetration Testing**

- Introduction to AI-Powered Hacking & **Automated Attacks**
- Dark Web & Cybercrime Trends
- Hands-on: Automated Exploitation Scripts
- API Hacking with Postman & Burp Suite
- Hands-on: Exploiting Windows & Linux
- Hands-on: Cloud Exploitation
- Active Directory Attacks & Defenses
- Practical IoT & Bluetooth Hacking
- Hands-on: Complete Penetration Test



### **Advanced Digital Forensics & Incident Response**

- Role of AI in Forensics
- Hands-on: Live Memory Dump Analysis
- File System Analysis & Log Correlation
- Hands-on: Cybercrime Investigation
- Android & iOS Analysis
- Live Incident Simulation
- Predictive Analysis for Threat Detection
- Real-world Cybercrime Case **Analysis**





















# **Program Trainers**



Sana Zahra Ahmed **Trainer - Cyber** Security IBA Karachi - Pakistan

Ms. Sana Zahra Ahmed, Vice President at Titanium MSSP RapidCompute, is a leading Cybersecurity and SOC Trainer. With experience securing 100+ companies, she has driven 300% client growth and enhanced breach response efficiency in 24/7 SOC operations. Her expertise spans NG SIEM, FIM, UEBA, NDR, SOAR, and predictive threat intelligence. A strong advocate for Women in Cybersecurity Pakistan, she brings practical experience and compliance expertise across 10+ international security standards to her training programs.



Mr. Mustufa Shiraz **Trainer - Cyber Security** IBA Karachi - Pakistan

Mustafa Shiraz Ahmed, a cybersecurity mentor and trainer, specializes in risk management, ethical hacking, and governance. A Certified CISA Trainer with top certifications (CISA, CISM, CEH, CHFI, ISO 27001), he holds an MBA Gold Medal and MS in Computer Science. As Senior Joint Director at the State Bank of Pakistan, he blends real-world expertise with a passion for training professionals.



**Abdul Majid Jamil Trainer - Cyber Security** IBA Karachi - Pakistan

Abdul Majid Jamil, Executive IT (ICT) at IBA, is a cybersecurity expert specializing in Digital Forensics and VAPT. With a B.E. in Telecom from IU and a Cyber Security certification from IBA, he has experience as a Researcher, Consultant, Ethical Hacker, Trainer, and Incident Responder. Passionate about securing digital systems, he brings innovative solutions to communications and IT security. As a trainer for the Strategic Digital Privacy Workshop, he provides valuable insights into cyber resilience and threat mitigation.





















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# **Connect With Us**

















