



APPONIXTM
academy

SINCE 2013



CYBER SECURITY

*"Secure the future of Technology
Think like a hacker, shield like a defender"*

SYLLABUS

Version: 1.0

About Us

- ✦ Apponix Academy is a leading training institute offering both online and offline courses in trending technologies like Cloud Computing, DevOps, Cyber Security, Full Stack Development, Data Science, Digital Marketing, and more.
- ✦ Established in 2013, Apponix has trained over 50,000 students across India and abroad, helping them build successful careers in the tech industry.
- ✦ With centers in Bangalore, Pune, Mumbai, Hubli, Aurangabad, Tumkur, Trichy, Gwalior, Ranchi, and more, Apponix continues to expand rapidly across the country.
- ✦ All our courses are designed to be job-oriented, practical, and aligned with real-world industry requirements.
- ✦ Our training is delivered by 100+ highly experienced corporate trainers who are experts in their respective fields.
- ✦ We offer flexible learning options, allowing students to choose between classroom sessions and live online classes.
- ✦ Apponix is ISO certified and provides globally recognized certifications from AWS, Microsoft, and Google.
- ✦ Over 3,000+ Apponix alumni are successfully placed in top MNCs with salaries above ₹15 LPA.
- ✦ Our focus is on 100% hands-on learning, project-based assignments, and real-time case studies.
- ✦ We provide complete career support including resume building, interview preparation, and placement assistance.
- ✦ With a strong presence and proven track record, Apponix Academy continues to be a trusted name in professional IT training.



COURSE KEY FEATUERS



Guaranteed Interviews



Microsoft cyber security Certification



Assured Job Placement



Interview Grooming Sessions



Mock/Career Session



Practical Learning Sessions



Delivered by Industry Experts



Weekly Practice Assignments



Real time cyber security project



Industry Relavent Syllabus

 **Awards & Accreditations** 



IABAC Authorized Partner



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**Most Promising
Training Institute**



MSME Certified

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CYBER SECURITY

1. Introduction to Cybersecurity

- What is Cybersecurity?
- Importance & Evolution of Cybersecurity
- Attack Vectors & Cyber Kill Chain
- **CIA Triad:** Confidentiality, Integrity, Availability
- Key Cybersecurity Domains

Tools:

- None (Theoretical)

Projects:

- Create a cyber attack case study timeline (e.g., WannaCry)

2. Policy, Procedure, and Change Management

- IT Policies vs Procedures vs Guidelines
- Types of Security Policies
- Change Management Lifecycle
- Role of CAB (Change Advisory Board)

Tools :

- NA

Projects:

- Review of Policy for an organization

3. Risk Management

- Risk Assessment Process (Identify, Analyze, Treat)
- Qualitative vs Quantitative Risk
- Risk Appetite and Tolerance
- Risk Mitigation Strategies (Avoid, Transfer, Accept, Reduce)

Tools:

- Risk Assessment sheet

Projects:

- Perform risk scoring using a sample IT asset list

4. Internal Controls

- Types: Preventive, Detective, Corrective
- NIST
- Segregation of Duties (SoD)
- Control Testing & Validation

Tools:

- NA

Projects:

- Map internal controls to specific business risks

5. Access Management

- Authentication vs Authorization
- Identity Lifecycle (Provisioning/De-provisioning)
- Role-Based Access Control (RBAC)
- MFA, SSO, LDAP
- Privileged Access Management (PAM)

Tools:

- Linux

Projects:

- Implement RBAC for a small IT department using AD

6. Threat Hunting

- What is Threat Hunting?
- Hypothesis-Driven vs IOC-Based Hunting
- TTPs and MITRE ATT&CK
- Hunting Life Cycle (Trigger, Investigate, Respond)

Tools:

- MITRE ATT&CK Navigator

Projects:

- Build a threat hunting hypothesis using real-world IOCs

7. Threat Modeling

- What is Threat Modeling?
- STRIDE, DREAD, PASTA Models
- Attack Surface Analysis
- Trust Boundaries & Data Flows

Tools:

- Linux

Projects:

- Perform STRIDE-based modeling on a web app architecture

8. Malware

- Malware Types: Virus, Worm, Trojan, Spyware, Ransomware
- Malware Delivery Methods
- Static vs Dynamic Malware Analysis
- Indicators of Compromise (IOCs)

Tools:

- VirusTotal

Projects:

- Analyze a known malware sample in a virtual lab

9. Social Engineering

- Common Techniques: Phishing, Baiting, Pretexting, Vishing
- Human Psychology in Attacks
- Red Team Social Engineering
- Mitigation Techniques (Awareness, Simulation)

Tools:

- Social-Engineer Toolkit (SET)

Projects:

- Simulate a phishing email

10. Patch Management

- Patch vs Update vs Upgrade
- Patch Management Lifecycle
- Vulnerability Disclosure & Patch Prioritization
- Patch Testing & Rollback

Tools:

- Microsoft patch

Projects:

- Create a patch deployment schedule

11. System Hardening

- Operating System Hardening
- Application & Service Hardening
- CIS Benchmarks

Tools:

- Security Compliance Toolkit

Projects:

- Harden a Windows 10 or Ubuntu VM using CIS benchmarks

12. Privacy Laws

- Data Privacy vs Data Protection
- GDPR, HIPAA, CCPA, Indian DPDP Act
- Data Subject Rights
- Fines & Enforcement Mechanisms

Tools:

- UK ICO website

Projects:

- Map GDPR requirements to company data flows

13. Network Security (Firewalls, DMZ, NAT, TCP/IP, 3-Way Handshake)

- OSI Model & TCP/IP Stack
- TCP 3-Way Handshake (SYN, SYN-ACK, ACK)
- Firewalls: Types & Rule Configuration
- NAT, PAT & Private Addressing
- DMZ Design & Use Cases

Tools:

- DMZ arc review

Projects:

- Capture a TCP handshake using Wireshark

OUR RECENT PLACEMENTS



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