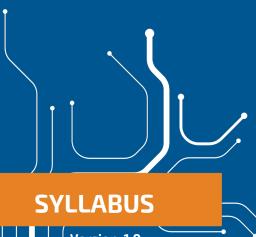






CYBER SECURITY

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



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





APPONIX academy









IABAC Authorized Partner

JAINx University Partner









VMWARE Authorized Partner

Most Promising Training Institute

MSME Certified

Microsoft Certification





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

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OUR RECENT PLACEMENTS



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OUR ALUMNI WORKING IN







