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Become a Certified Essential Series Cyber Security

Networking, cisco packet tracer,
Windows, Microsoft Defender

Contents

Module 1: Introduction to Cybersecurity

Topics Covered:

- Overview of cybersecurity history, scope, and key terminology
- Types of cyber threats and vulnerabilities
- Roles and responsibilities in a cybersecurity team
- Introduction to common frameworks and standards (NIST, ISO 27001)

Objectives:

- Understand why cybersecurity is critical in today's digital world.
- Learn the basic concepts and terminology used across the industry.

Inspiration: This module takes cues from introductory tracks on TryHackMe and foundational lessons in NetAcad's "Introduction to Cybersecurity."

Module 2: Networking Fundamentals for Security

Topics Covered:

- The OSI and TCP/IP models and common protocols
- Network devices (routers, switches, firewalls) and their security functions

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- Basic network configuration and troubleshooting
- Hands-on labs using simulated environments (TryHackMe exercises or NetAcad labs)

Objectives:

- Build a clear understanding of how data moves across networks.
- Learn how network vulnerabilities can be exploited and defended.

Module 3: Operating Systems & Endpoint Security Topics Covered:

- Overview of Windows, Linux, and macOS security fundamentals
- Basic command-line skills and system hardening practices
- Patch management and securing endpoints
- Practical labs on system configuration and vulnerability scanning

Objectives:

- Learn how different operating systems are secured.
- Practice basic system hardening techniques and vulnerability identification.

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Module 4: Threat Intelligence & Ethical Hacking Fundamentals

Topics Covered:

- Common attack vectors: malware, phishing, social engineering
- Footprinting, reconnaissance, and vulnerability scanning
- Introduction to ethical hacking concepts (informed by EC-Council's CEH methodology)
- Hands-on lab exercises for reconnaissance (using TryHackMe-style scenarios)

Objectives:

- Identify the phases of an attack and understand how attackers gather information.
- Begin developing ethical hacking skills through guided exercises.

Module 5: Security Tools and Technologies

Topics Covered:

- Overview of essential cybersecurity tools: firewalls, IDS/IPS, SIEM systems
- Practical demonstration of tool configuration and monitoring
- Vulnerability assessment and penetration testing tools
- Lab sessions on using these tools in simulated network environments

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Objectives:

- Familiarize with the toolset used to defend against cyberattacks.
- Gain hands-on experience in configuring and using key security applications.

Module 6: Incident Response & Digital Forensics Topics Covered:

- The incident response lifecycle and key best practices
- Log analysis, forensic data collection, and evidence preservation
- Case studies on real-world incident handling
- Simulated incident response exercises (guided labs similar to EC-Council's training modules)

Objectives:

- Understand how to detect, contain, and remediate security incidents.
- Develop basic skills in digital forensic techniques and incident documentation.

Module 7: Risk Management, Security Policies, and Compliance Topics Covered:

- Introduction to risk assessment methodologies and management strategies
- Overview of security policies, regulatory requirements, and compliance frameworks

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- Best practices for creating and enforcing security policies
- Group exercises and case studies on developing risk mitigation plans

Objectives:

- Learn how to assess and prioritize risks in an organization.
- Understand the importance of policies and compliance in maintaining security.

Module 8: Emerging Trends and Future Directions in Cybersecurity

Topics Covered:

- Current trends: IoT security, cloud security, AI/machine learning in Défense
- Advanced threat vectors and countermeasure strategies • Discussion on career paths, certifications (e.g., Security+, CEH, CISSP), and ongoing professional development
- Final capstone project: a comprehensive security assessment of a simulated organization

Objectives:

- Explore emerging technologies and trends that shape the future of cybersecurity.
- Prepare students to continuously update their skills and plan their career trajectory.

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