Course Syllabus

Executive Vulnerability Management

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Course Description and Goals

Course Description: Vulnerability management is how security vulnerabilities are identified, evaluated, and treated in an organization. Understanding vulnerabilities is instrumental in any organization, large or small. This course will detail vulnerability management from an Executive Leadership level. The intention is to help Executive Leadership understand the challenges of implementing a vulnerability management program, as well as implications if not set up properly. This course will detail the creation of a vulnerability management program, to include responsibilities and resources available for to improve efficiency and decrease risk throughout an enterprise. Individuals who enroll in this course will learn who should be involved in the vulnerability management process, what tasks are associated to create a secure environment, and what technology can aid in this process. Another important concept for this course is how vulnerability management is integral to any information security program, and how it can compliment other functions within the program.

This course will also address case studies and issues which can arise when vulnerability management programs are not as mature. After discussing these case studies, some tips will be provided to help mature a vulnerability management program, and what Executive leadership can do in an organization to support and grow their own programs. This course is intended to first educate Executive leadership, but also provide real-world scenarios and ways to improve security throughout the organization. All who enroll should finish the course with

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actionable items to take back to their businesses to support their Security teams, or even implement new practices and technologies which could improve overall security.

Prerequisites: Individuals who take this course should be familiar with Information Technology and Security best practices. They should also be familiar with vulnerability management and the patch management lifecycle, but do not need to be experts or even proficient in these subjects. They should also be in a leadership role in their organization, whether private or public sector. Examples of job roles would be Director of IT or Security, CISO, CIO, CTO, CEO, or other Executive Leadership roles. These individuals should be decision-makers in the vulnerability management arena, from patch management to technology and software purchases in the organization, from a strategic management perspective.

Course Goals: By the end of this course, students should be able to:

❏ Define processes within a Vulnerability Management Program
❏ Identify who should be involved with Vulnerability Management
❏ Determine best practices for Vulnerability Management
❏ Understand how to improve vulnerability management using new software / tools
❏ Be able to create a Plan of Action to improve vulnerability management

Labs Used: N/A

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Course Outline

Module 1 | Vulnerability Management
    Lesson 1.1: Introduction (3:14)
    Lesson 1.2: What is Vulnerability Management (VulnMgmt)? (12:18)
    Lesson 1.3: Building a Vulnerability Management Program (9:27)
    Lesson 1.4: Security Teams / Responsibilities (9:42)
    Lesson 1.5: Executive Leadership Role (10:03)

Module 2 | Tools / Technology
    Lesson 2.1: Patch Management Software (10:37)
    Lesson 2.2: Security Scanning Software (8:53)
    Lesson 2.3: Ticketing / Tracking Software (5:36)
    Lesson 2.4: Required Technical Skills (7:01)

Module 3 | Common Problems in VulnMgmt
    Lesson 3.1: Patching Cycles (7:32)
    Lesson 3.2: Software / Hardware Requirements (11:40)
    Lesson 3.3: Private Sector Cybersecurity Regulations (7:31)
    Lesson 3.4: Public Sector Cybersecurity Regulations (4:26)
    Lesson 3.5: Vulnerability Scoring Methodologies (6:32)
    Lesson 3.6: Remediation / Prioritization of Vulnerabilities (7:34)

Module 4 | Solving VulnMgmt Issues
    Lesson 4.1: Aligning Teams (6:15)
    Lesson 4.2: Consolidating Products (7:18)
    Lesson 4.3: Risk Analysis / Profile (6:27)
    Lesson 4.4: Automating Tasks (6:44)
    Lesson 4.5: Improving Overall Security (6:36)

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