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Course Syllabus

Cyber Kill Chain

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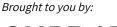## Course Description and Goals

Course Description:

A practical take on Lockheed Martin Cyber Kill Chain™, The course simulates an example target attack following the 7 phases of the Cyber Kill Chain™. Starting with reconnaissance utilizing online resources to research the target then use the information in weaponization and deliver to create a payload and deliver it to the target to exploit the target and install it and gain control on the target to action the objective of the attack. The course then utilizes the knowledge gained to design a defense in depth model using the Cyber Kill Chain™ to detect, deny, disrupt, degrade, deceive and contain the attack at each phase of the 7 phases of the Cyber Kill Chain™.

Prerequisites: Basic knowledge in Cyber security, Attacks, Kali Linux and Internet connection

Study Resources: Quiz and Additional readings

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

❏ Understand Lockheed Martin Cyber Kill Chain™
❏ Know each step of the Cyber Kill Chain™
❏ Complete a targeted attack using the Cyber Kill Chain™
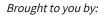❏ Design defense-in-depth using the Cyber Kill Chain™,

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Labs Used:
Footprinting using passive tools – Whois
Footprinting using passive tools – nslookup
Footprinting using passive tools – Websites
Fingerprinting using nmap
Weaponization lab using msfvenom
Attack completion Lab

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Course Outline

Module 1 | Introduction and the Cyber Kill Chain Overview
Lesson 1.1: Introduction (03:53)
Lesson 1.2: The Cyber Kill Chain (06:27)

Module 2 | The Cyber Kill Chain
Lesson 2.1: Reconnaissance 1 (16:20)
Lesson 2.2: Reconnaissance 2 (09:31)
Lesson 2.3: Reconnaissance 3 (09:48)
Lesson 2.4: Weaponization (08:06)
Lesson 2.5: Delivery (08:35)
Lesson 2.6: Exploitation and Installation (08:33)
Lesson 2.7: Command and Control (07:52)
Lesson 2.8: Action on Objectives (09:17)

Module 3 | Defense in Depth using The Cyber Kill Chain
Lesson 3.1: Defense in Depth (07:12)

Module 4 | Conclusion
Lesson 4.1: Conclusion (05:59)