CHUA CHU KANG COMMUNITY CLUB
IT Centre

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Skillsfuture@PA PC Ethical Hacking Bootcamp

Introduction:

Ethical hacking is the process of attempting to penetrate computer systems and networks with the intention of locating weaknesses and vulnerabilities (real and potential) that could be exploited by malicious hackers. Any information uncovered is then used to improve the system's security and plug loopholes

Ethical hacking is sometimes referred to as penetration testing, intrusion testing, or red teaming. There are many types of hackers, and ethical hackers are usually referred to as white hat hackers.

This skill is in high demand and an ethical hacking course can jumpstart your cybersecurity knowledge and add value to your career.

Objective:

This course provides a **technical cybersecurity practical awareness training** for all enthusiasts. The program is structured around hands-on exercises and Cyber Labs that will expose them to various computer hacking skills and analyze various protective measures and their effectiveness.

At the end of this training course, students should be able to assess their own infrastructure for security holes, and to confirm false positives using penetration testing and ethical hacking techniques.

Teaching Approach:

There will be brief lecture presentation interspersed with examples and demonstration. Hands-on lab exercises will be used to reinforce participants learning of the topics covered.

Who Should Attend:

This course is for computer users and anyone who is concerned about the security and integrity of their computer system and network infrastructure

Requirements:

You should preferably completed:

- PC Preparation in 9 hrs + Hands-on
- PC Networking

or have basic knowledge in :

- Access to Bios Settings
- Linux Commands
- TCP/IP
- Virtualization

Course Outline

- **An Introduction to Ethical Hacking.**
  - Definition of hacking?
  - Types of Hackers
  - Differences between Hacking and Ethical Hacking
- **5 phases of Ethical Hacking**
  - Reconnaissance
  - scanning
  - Gaining access
  - Maintaining access
  - Clearing Tracks
- **Identify Vulnerabilities**
  - Broken authentication
  - Injection attacks
  - Security misconfiguration
  - Vulnerability exploitation
  - Sensitive data exposure
- **Common ethical hacking techniques**
  - Packet Sniffing
  - Phishing
  - Denial of Service (DOS/DDOS)
  - Social Engineering
  - Network Penetration
  - Web application and server hacking
  - System hacking
  - Escalation of privilege
- **Practical Labs**

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