

## **Syllabus**

### **COURSE GENERAL INFORMATION**

Course Title: Ethical Hacking 1 Lab

Code: LWHE 1020

Contact Hours: 45

Term: December 22, 2020 – February 8, 2021

Teacher: Joel Vargas Ramos

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### **Course Description**

- The Professional Ethical Hacker course provides in-depth labs that focus on both open source and commercial based tools with industry best practices. These hands on labs emulate real world hacking scenarios and equip the candidate to assess your company's security posture, help implement controls to better secure your company's network infrastructure and how to combat against hackers and/or viruses, etc.

### **Objective**

- The Certified Professional Ethical Hacker vendor neutral certification course is the foundational training to mile2's line of penetration testing courses. By the completion of this course the student will be prepared to practice in a virtual simulation lab as to physical labs to approach the next step towards the C)PEH certification. This Course is one of three courses required to achieve the C)PEH candidate exam.

### **Prerequisite**

PWHE 1020 - Ethical Hacking 1

### **Labs Distribution**

Laboratory 1: Cryptographic Lab

Laboratory 2: Locating Log Files

Laboratory 3: Tracing a Route

Laboratory 4: Encrypting and Decrypting Data with Hacker Tools

Laboratory 5: Exploring DNS Traffic with Wireshark

**Homeworks:**

Homework Lab 1: Why Hackers Attack

Homework Lab 2: Risk Assessment Reference Documents

Homework Lab 3: OSI layer and Protocols

Homework Lab 4: Anatomy of Malware

**Forums:**

1. What is the Penetration Testing?
2. What the automotive industry needs to learn from Nissans cybersecurity error
3. Cryptographic and Privacy
4. How Data Protection can replace network protection in the WFH Era
5. Attacker are Using Fake Office365 Pages to Phish C-Suite Executives
6. Targeted the Game

**Lab Policy**

1. For the student's and equipment's safety **no eating and/or drinking** is allowed in the classroom or laboratory.
2. Students must always apply preventing ESD (Electrostatic Discharge) procedures before using electronic devices.
3. The use of Smartphone or any other personal device is prohibited during lab sessions unless approved by the professor.

**Evaluation Criteria**

<b>CRITERIA</b>	<b>Grade total</b>
Laboratory 1-2	100
Laboratory 3-5	100
Homework's Lab 1-4	100
Forums and Participation	100
Assistance	100
<b>Total</b>	<b>500</b>

\*Assignments are always due in class on the day designated. You are responsible for any work lost due to technical problems, etc. Late papers will lose a letter grade for each day that they are late. Any exceptions must be properly documented and discussed in advance for an extension to be arranged.

### **Educational Resources**

Neo LMS (2020). Ethical Hacking I. *passwordtech.edu20*.

[https://passwordtech.edu20.org/teacher\\_lessons/list/1594282](https://passwordtech.edu20.org/teacher_lessons/list/1594282)

Mile 2 (2020). Cybersecurity Security Information. *Mile2*. <http://mile2.com/>

### **Notes**

- **Reasonable Accommodation:** Any student who requires a reasonable accommodation should do the request at the beginning of the course or as soon as he / she acquires knowledge of what it requires, through the Professor in charge and this notifying the Academic Director.

- **Honesty, fraud, plagiarism:** The lack of honesty, fraud, plagiarism and / or any other inappropriate behavior in relation to the student's academic performance constitute violations of the Institution's Catalog, its Rules of Conduct and Student Duties. Major infractions, as determined by the Catalog, may result in the suspension of the Institution for a definite time or permanent expulsion as stipulated in the Norms of Conduct and Duties of the Student.