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OffSec Foundational Wireless Network Attacks PEN-210 (OSWP) Training

OffSec Authorized Training · Applied Technology Academy

PEN-210 is an in-depth wireless security and penetration testing course designed to provide learners with the knowledge and practical skills required to identify, exploit, and remediate vulnerabilities in wireless networks. The course covers a wide range of topics, including IEEE 802.11 standards, wireless network types, Linux wireless tools, Wireshark essentials, and advanced wireless network monitoring and analysis techniques.

LEVEL	DURATION	EXPERIENCE	AVERAGE SALARY	LABS
Intermediate	**5 Days**	**2 years: Networking**	**$93,464**	**Yes**

Course Overview

Throughout the course, students will engage in interactive labs and exercises that simulate real-world scenarios, gaining valuable experience in conducting wireless network assessments and implementing effective security measures. By the end of PEN-210, learners will have a comprehensive understanding of wireless network security and the ability to conduct wireless penetration tests. Like other OffSec courses, WiFu combines traditional course materials with hands-on practice within a virtual lab environment. The course covers the topics listed below in detail. Course topics can also be found in the syllabus.

- Greater insight into wireless offensive security and expanded awareness of the need for real-world security solutions
- Implementing attacks against WEP and WPA encrypted network
- Comprehensive understanding of IEEE 802.11 standards and wireless network types
- Proficiency in using Linux wireless tools, drivers, and stacks
- Mastering Wireshark for packet
- Deploying and detecting rogue access points
- Attacking WPA Enterprise networks and captive portals
- Utilizing Bettercap and Kismet for wireless network monitoring and analysis

Course Outline

- **Lesson 1: IEEE 802.11**
- **Lesson 2: Wireless Networks**
- **Lesson 3: Packets and Network Interaction**
- **Lesson 4: Linux Wireless Stack and Drivers**

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- **Lesson 5: Aircrack-ng Essentials**
- **Lesson 6: Cracking WEP and Connected Clients**
- **Lesson 7: Cracking WEP via a Client**
- **Lesson 8: Cracking Clientless WEP Networks**
- **Lesson 9: Bypassing WEP Shared Key Authentication**
- **Lesson 10: Cracking WPA/WPA2 PSK with Aircrack-ng**
- **Lesson 11: Cracking WPA with JTR and Aircrack-ng**
- **Lesson 12: Cracking WPA with coWPAtty**
- **Lesson 13: Cracking WPA with Pyritt**
- **Lesson 14: Additional Aircrack-ng Tools**
- **Lesson 15: Wireless Reconnaissance Tools**
- **Lesson 16: Understanding of how to implement different rouge access point attacks**
- **Lesson 17: Familiarity with the BackTrack wireless tools**

Intended Audience

PEN-210 is designed for cybersecurity professionals, network administrators, and IT professionals who want to expand their knowledge and skills in wireless network security and penetration testing. The course is particularly beneficial for individuals just beginning to pursue careers in cybersecurity or ethical hacking.

Prerequisites

All students must have:

- Solid understanding of TCP/IP and the OSI model as well as familiarity with Linux.
- A modern laptop or desktop that can boot and run BackTrack
- Specific Hardware is required to complete course exercises

Follow-On Courses

- Evasion Techniques and Breaching Defenses (PEN-300)
- Advanced Web Attacks with Kali Linux (WEB-200)
- Windows User Mode Exploit Development (EXP-301)

Features

- Course Materials
- Active Student Forums
- Access to Home Lab Setup

Also available in On-Demand formats below:

- Learn Fundamentals Package – $799
- 1 year unlimited access to all fundamental content and OffSec curated Learning Paths
- 365 days of lab access
- PEN-103 + 1 KLCP exam attempt
- PEN-210 + 1 OSWP exam attempt
- Easily upgrade at any time to a Learn One subscription.
- Learn More
- OR
- Learn One Package – $2,749
- 1 year of access to the course of your choice
- 2 exam attempts during your subscription
- 365 days of lab access
- Access to all 100-level content for 1 year
- 1 year of unlimited access to all fundamental content and OffSec curated Learning Paths
- PEN-103 + 1 KLCP exam attempt
- PEN-210 + 1 OSWP exam attempt
- Proving Grounds Practice labs
- Learn More
- OR
- Learn Unlimited Package – $6,099
- 1 year of access to unlimited course & content
- Unlimited exam attempts during your subscription
- 365 days of lab access
- 1 year of unlimited access to all fundamental content and OffSec curated Learning Paths
- Access to all 100-level content for 1 year
- PEN-103 + unlimited KLCP exam attempts
- PEN-210 + unlimited OSWP exam attempts
- Proving Grounds Practice labs
- 3 downloads of course material
- Learn More

Ready to enroll? Call 800.674.3550 or email Info@AppliedTechAc.com — private team cohorts, GSA MAS purchasing, military credentialing funding, VA GI Bill and VR&E and student financing available.