Annex to the
CERTIFICATE of COMPLETION

of the course

Penetration Testing course

within the 2022 Cybersecurity Summer Instructor Training Program

under the **USAID Cybersecurity for Critical Infrastructure in Ukraine Activity**

11 July – 31 August 2022

Module	Hours
Introduction to Penetration Testing. • Network Security Controls and Devices • Windows and Linux Security • Web Application and Web Server Architecture and Operations • Web Application Security Mechanisms • Information Security Attacks	4
Open Source Intelligence (OSINT) • OSINT Through World Wide Web (WWW), Website Analysis, DNS Interrogation • Automating your OSINT Effort Using Tools/Frameworks/Scripts	4
Network Penetration Testing – External. • External Network Information & Reconnaissance. • Scanning, and Exploitation	4

Network Penetration Testing– Internal.	4
• Internal Network Information Reconnaissance and Scanning.	
• Internal Network Enumeration and Vulnerability Scanning.	
• Local and Remote System Exploitation.	
Network Penetration Testing – Perimeter Devices.	4
• Firewall Security Assessment Techniques.	
• IDs Security Assessment Techniques.	
• Router and Switch Security Assessment Techniques.	
Wireless Penetration Testing.	4
• WLAN Penetration Testing Techniques.	
IoT Penetration Testing.	4
OT/SCADA Penetration Testing.	4
Cloud Penetration Testing.	4
• Cloud Specific Penetration Testing Techniques and Recommendations	
• Cloud Specific Penetration Testing Methods	
Binary Analysis and Exploitation	4
Labs and Practices	40
Self-study	90
Tests	10
Total	**180**

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Petro Matiaszek

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