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## **CERTIFICATE of COMPLETION**

This certifies that

***Kostiantyn Tchervinka***

has successfully completed the course

**Penetration Testing**

within the 2022 Cybersecurity Summer Instructor Training Program  
under the **USAID Cybersecurity for Critical Infrastructure in Ukraine Activity**

11 July – 31 August 2022

**Petro Matiaszek**

Chief of Party, USAID Cybersecurity for Critical Infrastructure in Ukraine Activity



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**Annex to the**  
**CERTIFICATE of COMPLETION**

of the course

**Penetration Testing course**

within the 2022 Cybersecurity Summer Instructor Training Program  
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<b>Module</b>	<b>Hours</b>
Introduction to Penetration Testing. <ul style="list-style-type: none"><li>• Network Security Controls and Devices</li><li>• Windows and Linux Security</li><li>• Web Application and Web Server Architecture and Operations</li><li>• Web Application Security Mechanisms</li><li>• Information Security Attacks</li></ul>	4
Open Source Intelligence (OSINT) <ul style="list-style-type: none"><li>• OSINT Through World Wide Web (WWW), Website Analysis, DNS Interrogation</li><li>• Automating your OSINT Effort Using Tools/Frameworks/Scripts</li></ul>	4
Network Penetration Testing – External. <ul style="list-style-type: none"><li>• External Network Information &amp; Reconnaissance.</li><li>• Scanning, and Exploitation</li></ul>	4

Network Penetration Testing– Internal.	4
<ul style="list-style-type: none"> <li>• Internal Network Information Reconnaissance and Scanning.</li> <li>• Internal Network Enumeration and Vulnerability Scanning.</li> <li>• Local and Remote System Exploitation.</li> </ul>	
Network Penetration Testing – Perimeter Devices.	4
<ul style="list-style-type: none"> <li>• Firewall Security Assessment Techniques.</li> <li>• IDs Security Assessment Techniques.</li> <li>• Router and Switch Security Assessment Techniques.</li> </ul>	
Wireless Penetration Testing.	4
<ul style="list-style-type: none"> <li>• WLAN Penetration Testing Techniques.</li> </ul>	
IoT Penetration Testing.	4
OT/SCADA Penetration Testing.	4
Cloud Penetration Testing.	4
<ul style="list-style-type: none"> <li>• Cloud Specific Penetration Testing Techniques and Recommendations</li> <li>• Cloud Specific Penetration Testing Methods</li> </ul>	
Binary Analysis and Exploitation	4
Labs and Practices	40
Self-study	90
Tests	10
<b>Total</b>	<b>180</b>



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