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Annex to the
CERTIFICATE of COMPLETION

of the course

Cloud Cybersecurity 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
Fundamentals of Cloud Computing and Architectural Characteristics <ul style="list-style-type: none">• Understand what Cloud computing is• Architectural and Technological Influences of Cloud Computing• Understand the Cloud deployment models• Scope of Control• Cloud Computing Roles• Risks and Security Concerns	6
Security Design and Architecture for Cloud Computing Guiding Security design principles for Cloud Computing <ul style="list-style-type: none">• Quick look at CSA, NIST and ENISA guidelines for Cloud Security• Common attack vectors and threats	6

Secure Isolation of Physical & Logical Infrastructure 6

- Isolation
- Common attack vectors and threats
- Secure Isolation Strategies

Data Protection for Cloud Infrastructure and Services 6

- Understand the Cloud based Information Life Cycle
- Data protection for Confidentiality and Integrity
- Common attack vectors and threats
- Encryption, Data Redaction, Tokenization, Obfuscation, PKI and Key Management, Assuring data deletion
- Data retention, deletion and archiving procedures for tenant data
- Data Protection Strategies

Enforcing Access Control for Cloud Infrastructure based Services 6

- Understand the access control requirements for Cloud infrastructure
 - Common attack vectors and threats
 - Enforcing Access Control Strategies
 - Compute, Network and Storage
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Monitoring, Auditing and Management	6
<ul style="list-style-type: none">• Proactive activity monitoring, Incident Response• Monitoring for unauthorized access, malicious traffic, abuse of system privileges, intrusion detection, events and alerts• Auditing – Record generation, Reporting and Management• Tamper-proofing audit logs• Quality of Services• Secure Management	
Summary of course	4
Labs and Practises	40
Self-study	90
Tests	10
Total	180

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