



ITU Centres of Excellence Network for Arab Region

Naif Arab University of Security Sciences (NAUSS)

Online Training Course on

**“Cybersecurity Foundation”
17-18 March 2021**

TRAINING COURSE OUTLINE

COURSE DESCRIPTION

Title	Cybersecurity Foundation
Objectives	<ul style="list-style-type: none">• To understand cybersecurity key elements (C.I.A).• To understand the concept of threat, vulnerability, and risks related to cybersecurity.• To have a hands-on experience on cyber-attacks.
Dates	17- 18 March 2021
Duration	2 Days
Registration deadline	9 March 2021
Training fees	Free
Course code	21OI26431ARB-E

DESCRIPTION OF THE TRAINING COURSE

This course covers the foundations and basics of cybersecurity and their importance. Also, it describes what a cyberattack is and what are its main types and latest trends. This course as well teaches about the difference between a threat, vulnerability, and risks in cybersecurity. Practical experiments will strengthen the theoretical foundations provided.

LEARNING OUTCOMES

By the end of this training, participants should be able to:

- Define the main elements of cybersecurity and describe their importance and their types.
- List the trends of cyber-attacks
- Demonstrate the practical steps of a cyber-attack simulation.
- Compare between threat, vulnerability and risk in cybersecurity domain.
- Perform the steps of vulnerabilities scanning / and encryption/decryption operation
- Analyze a case study of cyber-attack.

TARGET POPULATION

This training course targets Network administrators, system administrators.

ENTRY REQUIREMENTS

- Basic knowledge in information and technology and its related fields.

TUTORS/INSTRUCTORS

NAME OF TUTOR(S)/INSTRUCTOR(S)	CONTACT DETAILS
Dr. Meryem Ammi	mammi@nauss.edu.sa

EVALUATION

Participants will be evaluated according to:

- Dedication in attending the sessions.
- Planned final exam.

TRAINING SCHEDULE AND CONTENTS / AGENDA

Day 1. Overview		
Date for 1 st day	Time; Start time	Topics/Activities
17/03/2021	09:00-11:00	<ul style="list-style-type: none"> • Introduction to Cybersecurity <ul style="list-style-type: none"> ○ Essential elements of Cybersecurity: Confidentiality, Integrity, Availability. ○ Recent trends of cybersecurity. ○ Types of Cyber-attacks
	11:00-12:00	<ul style="list-style-type: none"> • Hands-on Introduction - I <ul style="list-style-type: none"> ○ Prepare VMware and Kali Linux ○ Simulate a simple cyberattack
	12:00-13:00	<ul style="list-style-type: none"> • Hands-on Introduction – II <ul style="list-style-type: none"> ○ Simple Vulnerability Scanning

METHODOLOGY (Didactic approach)

Day 2: Practice cybersecurity foundation		
Date for 2 nd day	Time; Start time	Topics/Activities
18/03/2021	09:00-10:00	<ul style="list-style-type: none"> • Threat, vulnerability, and risks related to cybersecurity. <ul style="list-style-type: none"> ○ Identify and assessment vulnerabilities. <ul style="list-style-type: none"> ▪ Common Vulnerabilities and Exposures (CVE) ▪ Common Vulnerability Scoring System (CVSS)
	10:00-11:00	<ul style="list-style-type: none"> • Hands-on experience with a cybersecurity technique <ul style="list-style-type: none"> ○ Simple Encryption/Decryption
	11:00-12:00	<ul style="list-style-type: none"> • Analyse cyber-attacks cases.
	12:00-13:00	<ul style="list-style-type: none"> • Final Examination

- Instructor-Led Class Lectures and presentations– Slides.
- Reviews and Revisions.
- Case Studies.
- Hands-on practice.

EVALUATION AND GRADING

- 30 points on participation and attendance. (15 points on each day).
- 70 points on Final exam.
- Minimum Grade to pass : 70 points.
- Full grade : 100 points.

TRAINING COORDINATION

<p>Training Coordinator: Dr. Abdulrazaq Al-Morjan Director of Center of Excellence in Cyber Crimes and Digital Forensics NAUSS Mobile: +966 54 470 05 53 E-mail: t-aalmargan@nauss.edu.sa</p>	<p>ITU Coordinator: Eng. Mustafa Al Mahdi Programme Officer ITU Arab Regional Office Tel: +202 3537 1777 Mobile: +20114 1177573 Fax: +202 3537 1888 Email: mustafa-ahmed.al-mahdi@itu.int</p>
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REGISTRATION

There is no training fee applied for this course.

Registration should be made online at the ITU Academy portal.

To be able to register for the course you **MUST** first create an account in the ITU Academy portal at the following address: <https://academy.itu.int/index.php/user/register>

When you have an existing account or created a new account, you can register for the course online at the following link: <https://academy.itu.int/index.php/training-courses/full-catalogue/cybersecurity-foundation>

You can also register by finding your desired course in our training catalogue <https://academy.itu.int/index.php/training-courses/full-catalogue>
