



## ITU Centres of Excellence Network for Arab Region

### Naif Arab University of Security Sciences (NAUSS)

#### Online Training Course on

#### **“Cybersecurity Foundations”**

**30-31 August 2021**

#### TRAINING COURSE OUTLINE

#### COURSE DESCRIPTION

Title	Cybersecurity Foundation
Objectives	<ul style="list-style-type: none"><li>- To understand cybersecurity key elements (C.I.A).</li><li>- To understand the dangerous actors that pose cyber threats in cyberspace.</li><li>- To understanding the concept of threat, vulnerability, and risks related to cybersecurity.</li><li>- To gain a hands-on experience skill how to defence for cyber-attacks</li></ul>
Dates	30 - 31 August 2021
Duration	2 Days
Registration deadline	20 August 2021
Training fees	0 USD (Free)
Course code	21OI27680ARB-E

#### DESCRIPTION OF THE TRAINING COURSE

This training will enable the participants to understand cybersecurity foundations principles, encryption, and decryption mechanisms. Also, to differentiate between threat, vulnerability and risk in cybersecurity. Furthermore, to gain practical skills related to cyberattacks and its trends. This course also provides hands-on practice with a virtual machine and cyberattacks simulation.

## LEARNING OUTCOMES

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

- Knowledge of the main elements of cybersecurity and describe their importance.
- Knowledge of the trends of cyber-attacks and differentiate between the types of these cyberattacks.
- Knowledge of differentiating between threat, vulnerability and risk in cybersecurity domain.
- Skills to conduct of Demonstrate the practical steps of cyber-attacks simulation.
- Skills in Perform the steps of vulnerabilities scanning / and encryption/decryption operation.
- Skills in using virtual machine and simulating cyberattacks.

## TARGET POPULATION

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This training targets technology professionals and cybersecurity beginners, Network administrators, system administrators, security operation center employees, as well as individuals interested in building their Cybersecurity capabilities.

## ENTRY REQUIREMENTS

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There is not mandatory prerequisite course to attend this course, but the following knowledge and skills preferred.

- Have a background of computer science and IT related experience.
- Basic level experience in Linux Operating System.

## TUTORS/INSTRUCTORS

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NAME OF TUTOR(S)/INSTRUCTOR(S)	CONTACT DETAILS
Dr. Meryem AMMI	<a href="mailto:mammi@nauss.edu.sa">mammi@nauss.edu.sa</a>

## TRAINING COURSE CONTENTS

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This course provides the following topics.

- Cybersecurity definition and objectives.
- Cybersecurity principles, types, and trends.
- Cyberattacks types and trends.
- Encryption and decryption: Explain the encryption and decryption as a defense mechanism.
- hands-on encryption and decryption, and simulation of cyberattack.

## TRAINING SCHEDULE AND CONTENTS / AGENDA (Riyadh Time)

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Day 1. Cybersecurity Introduction		
Date for 1 <sup>st</sup> day	Time; Start time	Exercises and interactions
30/08/2021	09:00-13:00	Cybersecurity foundations and principles, Cyberattacks, types and trends.

Day 2: Cyberattacks Simulation		
Date for 2 <sup>nd</sup> day	Time; Start time	Exercises and interactions
31/08/2021	09:00-12:00	Simulating a cyberattack and encryption / decryption methods.
	12:00-13:00	Final Exam.

## METHODOLOGY (Didactic approach)

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- This course provides Instructor-led presentations and provides hands-on practices. Some hands-on practices will provide pre-recorded files.

## EVALUATION AND GRADING

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- Evaluation for this course is conducted by final overall exam (100%). Participants should attend final exam at the end of this course. A passing mark of 70% is required to get the course completion.

## TRAINING COORDINATION

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

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### ITU Academy portal account

Registration and payment 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>

### Training course registration

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/training-courses/full-catalogue/cybersecurity-foundations>

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