

**Grant Agreement Number: 833389** 

**Project acronym:** Cyber-MAR

<u>Project full title</u>: Cyber preparedness actions for a holistic approach and awareness raising in the MARitime logistics supply chain



## **Syllabus**

# **Training level 1 (Entry level)**





**COURSE:** Cyber MAR - ENTRY LEVEL - LMS

**DELIVERY DATE**: 24<sup>th</sup> – 26<sup>th</sup> November

**COURSE DESCRIPTION:** Training is a basic introduction to cyber security and the concept of Cyber-MAR. The goal is to raise awareness among identified users (very large audience). To give the participant the opportunity to understand cyber security threats and the basic concepts for reducing risk in the maritime sector.

**STUDENT LEARNING OUTCOMES**: participants will be able to make an active part in the process of detecting and responding to attacks.

**DURATION**: E-LEARNING CLASS 9 Hours

WORK OUT CLASS 3 Hours

## MODULE 1: Intro and scenarios

Introduction of Cyber MAR project and actors involved

Value of data

Data, seaside and internet connections

The use of data

Meaning of network (wired and wireless)

Ships environments

People involved

SCADA meaning with samples

Responsibilities

Range of ships – open discussion

Assets on board (sat, ecdis, wireless, crew, ...)

Kind of attacks USB

Kind of attacks Internet





Kind of attacks spoofing and jamming (basic)

Kind of attacks DOS

Kind of attacks misinformation

Kind of attacks social engineering (basic)

Data Theft and/or leak

**Economic reasons** 

Revenge reasons

The role of Cyber Range

**Network basics** 

**Ships and Boat** 

#### MODULE 2: The Regulatory Framework for Cyber Security in Critical

#### <u>Infrastructures"</u>

IMO approach

EU Law - Framework of transport infrastructure resilience

#### MODULE 3: Attacks issues in deep

Content: wifi, sat, spoofing, jamming, dos, misinf, social engineering, data theft, SCADA.

#### MODULE 4: Mitigation and remediation

Mitigation follows "Attack issues in deep" schema (module 3)

#### MODULE 5: Mini-master on cyber security – Entry level

Cybersecurity in real-life

Hacking, cybercrime & cyber espionage

Security awareness





## MODULE 6: **Overview of real cases**

What happened?

Why?

How to avoid it

## MODULE 7: Conclusions and intro to the next level

The reason for of cyber range

Intro to second level training

Required skills

How does it work and why

Deep dive into level one schema

Final Training evaluation

