



PRESS RELEASE

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Ships are Vulnerable to Cyber Attacks

Aboa Mare's new course prepares your organization against cyber security threats

Maritime Academy and Training Center Aboa Mare and maritime cyber security specialist Deductive Labs Ltd have agreed to cooperate on the Maritime Cyber Security Training. Thanks to the cooperation, the Maritime Cyber Security Training course, organized by Deductive Labs, is added to the Aboa Mare course selection. The course objective is to learn IMO's regulations and guidelines on cyber risk management in order to protect ships from cyber-incidents. The first Maritime Cyber Security course is held 10 of February.

Ships are more vulnerable to cyber attacks than before, as the amount of technology onboard is increasing. Since systems are getting more integrated, it is not solely the traditional IT systems onboard that are threatened but also the OT (operational technology) as well. There are many different IT and OT systems onboard, from traditional computers, printers and web cameras to advanced navigation and communication systems. Operations can be remotely controlled or monitored from land-based virtual bridges, and digitalization leads to new challenges. Shipping companies need to conduct cyber security assessments on their vessels in order to reduce the risk of a cyber attack.

IMO has issued guidelines on maritime cyber risk management. The resolution encourages administrations to ensure that cyber risks are appropriately addressed in existing safety management systems (as defined in the ISM Code) no later than the first annual verification of the company's Document of Compliance after **1 January 2021**.

Upon completing Aboa Mare's Maritime Cyber Security Training, the participant will understand the current requirements set by IMO's regulations and guidelines on cyber risk management onboard ships, be familiar with threats, threat actors and their objectives and know how to identify potential cybersecurity incidents. Upon completing the course, the participant can also understand and participate in the management of cyber security strategies and actions within an organization or onboard a ship.

Some of the topics covered during the training:

- what cybersecurity is and how it can affect maritime operations
- how different attack scenarios affects maritime equipment
- how navigation equipment can get spoofed or hacked
- understand how to detect and manage cybersecurity incidents (e.g. logging, monitoring, procedures)
- IMO regulations, standards and guidelines
- how to take action and make strategies in order to be prepared

The course is intended for Masters, chief engineers, officers and other ship personnel. The course is also of value for DPA:s and shipping company personnel involved directly or indirectly in cyber security.

For additional information, please contact:

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Aboa Mare offers degree and continuing education for the maritime industry. The maritime education and training centre in Turku was founded in 1813. Aboa Mare offers secondary education at Axxell vocational institute, where you can study for a Watchkeeping Officer's or Watchkeeping Engineer's degree, and Bachelor level education at Novia UAS, where you can study for a Sea Captain's or Marine Engineer's degree. Aboa Mare also offers Master level education, Master's degree programme in Maritime Management and Master's degree programme in Autonomous Maritime Operation. In addition, Aboa Mare offers continuing education for both professional seafarers and boaters. The training centre provides safe and environmentally sustainable training, which fulfils the requirements laid down in the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW). The education and training on offer makes use of the simulators developed by Aboa Mare. Our simulation department consists of 10 ship bridge simulators, one engine control room simulator, one VTS-simulator, one DP-simulator and one GMDSS simulator. The first-rate simulators are also used for different R&D projects within the maritime industry. www.aboamare.fi