



## MARITIME CYBER SECURITY ONBOARD SHIPS

### **Introduction**

The Maritime Cyber security onboard ship is a modeled IMO course tailored for individuals aim to provide experienced sea farers to be knowledgeable in Cyber security shipping systems and port technologies in maritime industry. The training provides general awareness about the IT/OT on the ships; improve their safety and security, assessing cyber risk to their environment, cargo and the ships operations to ensure they are protected and resilient against growing cyber threats and vulnerabilities affecting maritime industry. Participant’s mindset will be enlightened to see seriousness of current Cyber security risk, Cyber security challenges and problems in navigations and ship’s systems on board, and this training get you geared up to establish maritime cyber security action plan and respond.

### **Objectives**

On the completion of this course, the trainees should be familiar in the development of proper cyber risk management strategy in accordance with the relevant regulations and best practices on board ship with a focus on work process, equipment, training, incident response and recovery management.

### **Syllabus**

- Introduction to Maritime Cyber Security.
- Knowledge in Cyber security of AIS,ECDIS,VDR,EPIRB,CIS,PMIS and other information technology systems in maritime industry
- Knowledge in IT (information technology) and OT (operational technology) onboard ship relating to Cyber security system.
- Confidentiality, Integrity, Availability CIA model importance, data system protection; privacy.
- Cyber risk management approach in maritime industry (NIST Cyber security Framework)
- Identify cyber threats and vulnerabilities on board, Access risk exposure and develop protection and detection measures
- Know what to do; On vessel Cyber security Action plan/Contingency plan

- Respond to technical threats and recover from cyber security incidents.

### **Course Outcomes**

After successfully completing this course, participants should be able contribute to the enhancement of maritime cyber security through heightened awareness onboard ship; ship’s system and technologies, recognition of cyber security threats to the ship; and understanding of the need for and methods of maintaining cyber security awareness.

### **Teaching and Mode of Delivery**

Lecture, (PowerPoint) visual aids, and practical exercise methods.

### **Pre-requisite**

This course framework requires a little knowledge of maritime industry relating to ship’s system and other technologies in maritime industry.

### **Certificates**

On successful completion of the course and meeting all assessment criteria, participants will be issued a Maritime Cyber Security Certificate.

### **Miscellaneous**

Candidates attending this training must be 100% in attendance

### **Assessment**

In addition to a formal written assessment the candidates will be assessed through oral questioning, and within group interactions.

### **Training Details and Costs**

**Duration:** 5 Days  
**Time:** 8:30am – 3:00pm  
**Venue:** PMTC, Konedobu  
**Course Fees:** TBA

For further information please contact:  
Hayley Kana, Registrar  
Phone: +675 72320725 / 76218371  
Email: [pmtcregistrarhk@gmail.com](mailto:pmtcregistrarhk@gmail.com)