COURSE OVERVIEW
SHIPBOARD CYBERSECURITY & IT SYSTEMS

Course Durations: 2 days   **Course Applicability : Officers**   **Mode: Online/Web**
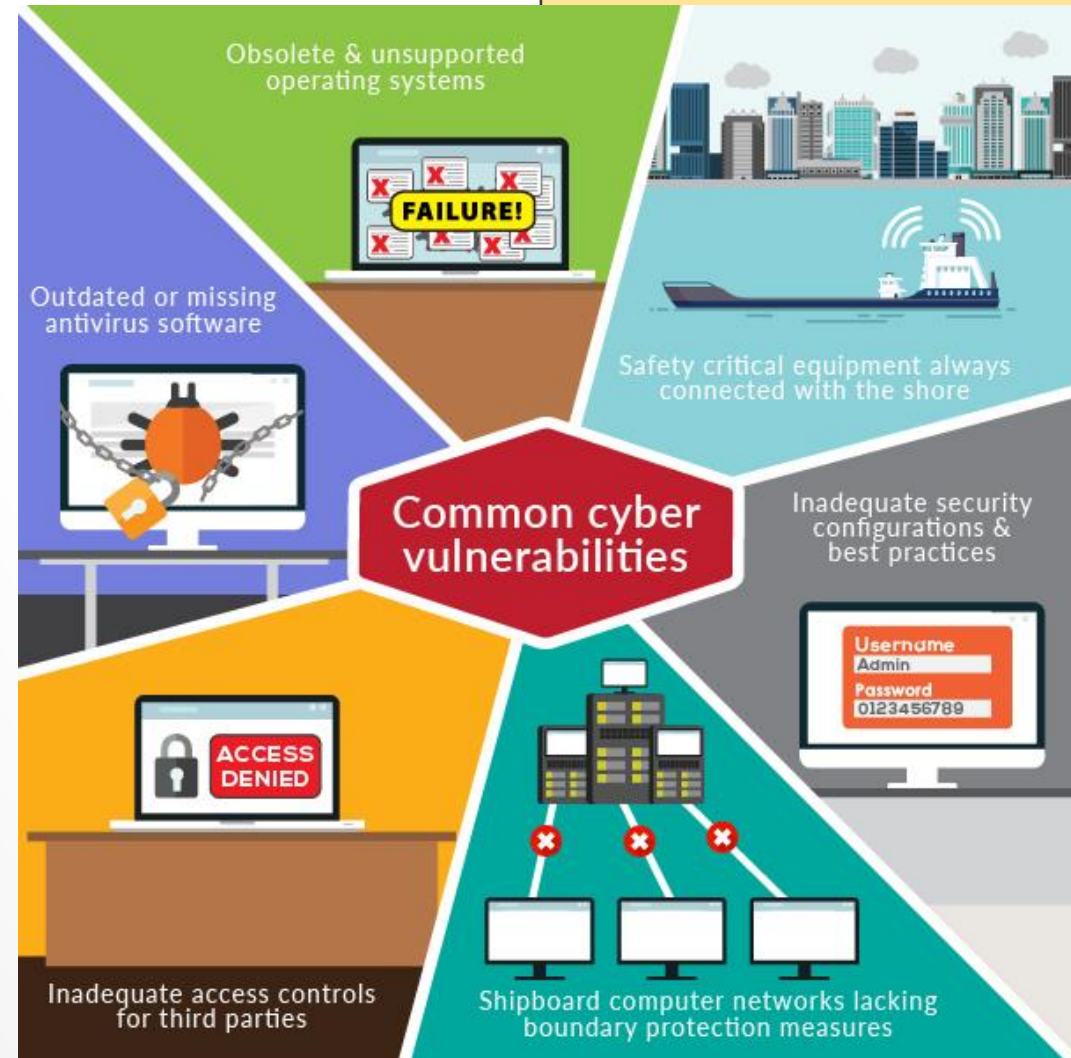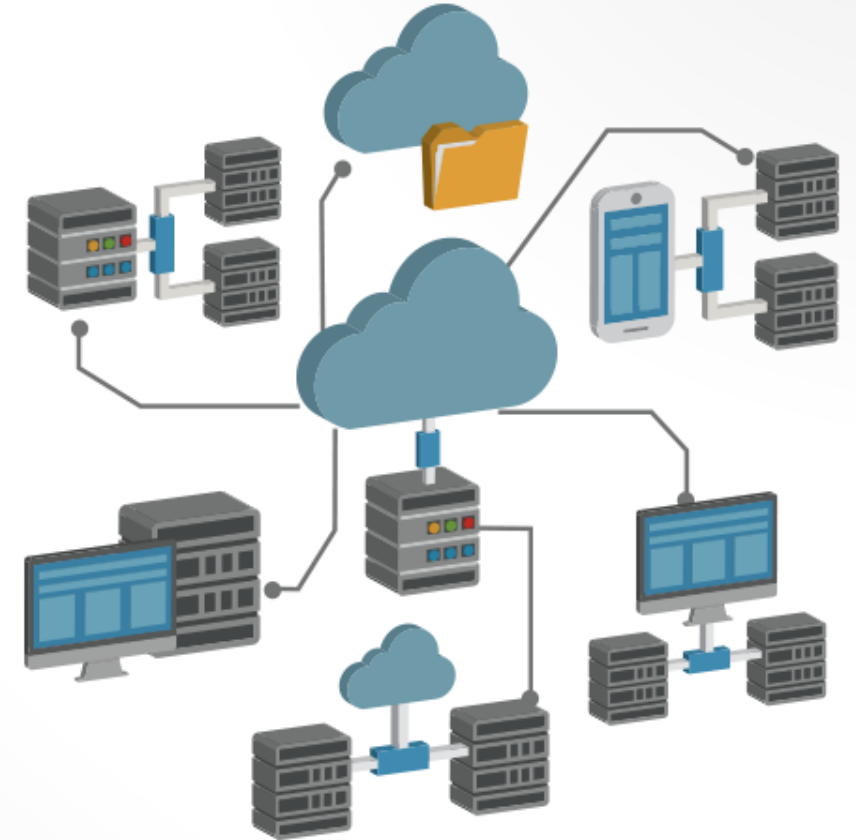
Maritime Cyber Security

- **Types of Malware**

- **IT & OT (Definition & Differences)**

- **Ship – Shore Partnership**

- **Compliance & Security**

- **Scenarios / Situations / Videos**

  Wi-Fi Threats

- **Wi-Fi Security & it's importance**

- **Types of Wi-Fi Threats**

- **Man – In – Middle Attacks & it's Prevention**

- **Wardriving & it's Prevention**

- **Evil Twin Attack & it's Prevention**

Shipboard IT Systems Training

- Communication Networks: Intro to Shore Based and Maritime/Ship Based Networks

- Intro to Information & Communication Technology (ICT)

- Purpose of Communication Networks on Vessel

- Digitalization of Vessel OPS & Types of Shipboard Networks

- Shipboard IT Network Elements – Basics & Identification

- IT Network Concepts & Terminology :

  IP ADDRESS, LAN, VLAN, WLAN, MESH Wi-Fi

- Thin Client Server System

- VSAT SYSTEM

- Common Network Problems faced onboard

- Troubleshooting Basics - Network connectivity

- Reporting issues & Understanding Instructions from shore

- Tools, Tips and Tricks

Cyber Security Management System for KMSM VESSEL

- **Operations Brief**
- **User Interface guide**
- **Platform familiarization**

Modules walkthrough

EDOT SOLUTIONS 2024.

TRAINING SCHEDULE

Occurrence : Monthly

	SESSION 1	SESSION 2	SESSION 3	SESSION 4
DAY 1 (3 hours)	**Maritime Cyber Security** Understanding Cyber Risks and Risk Assessment	**Wi-Fi Threats** Understanding and Mitigating threats	**The SSNET Platform** VSL CSMS Introduction and User guide	**Shipboard IT Network Familiarization part 1**: Intro to Shore Based and Maritime/Ship Based Networks, Information & Communication Technology (ICT) Purpose of Communication Networks on Vessel
DAY 2 (3 hours)	**Shipboard IT Network Familiarization part 1:** - Brief on Digitization of Vessel OPS & IT/Cyber Enabled Systems - Shipboard IT Network Elements	**Shipboard IT Network Familiarization part 2** Ship IT Network Concepts & Network Terminology	**Shipboard IT SYSTEMS** Think Client Server System & VSAT System	**Shipboard IT Network** Common Network Problems faced on board & Troubleshooting Basics