

# Cyber Awareness for Mariners Course Description

 <p><b>Train anywhere.</b></p> <p>Give your crew access to a consistent learning experience anytime and anywhere at their convenience, whether they're on land or on board at sea.</p>	 <p><b>Assess, measure, and improve.</b></p> <p>Spot issues before they become accidents. Accurately assess trainees and obtain advanced analytics that tell you what your trainees know and don't know.</p>	 <p><b>Leverage the best content.</b></p> <p>Use the best training, no matter where it comes from. Mix courses from external sources or equipment manufacturers with your own customized, in-house training.</p>	 <p><b>Supported by experts.</b></p> <p>We understand eLearning. Our team has extensive experience in eLearning research, development, use and deployment - having served over 14 million learners.</p>
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**USMRC UNITED STATES MARITIME RESOURCE CENTER**

**CYBER AWARENESS FOR MARINERS**

This course is designed to enable maritime operators to better understand common vulnerabilities to onboard computer-based networks and industrial control systems to include both operational and information technologies – OT and IT. The learning content focuses on the role mariners can play in safeguarding these systems and is derived from actual onboard research and technical analysis as part of the USMRC Maritime Cyber Assurance<sup>SM</sup> Research program.

- ✓ Course Materials
- ✓ Ransomware: Anatomy of an Attack
- ✓ Watch CryptoLocker in action
- ✓ W32.Duqu: The Precursor to the Next Stuxnet
- ✓ Final Exam



**Cyber Awareness for Mariners** provides marine operations professionals with an interactive web-based learning experience that is custom-built “by mariners, for mariners,” and based on real maritime cyber field expertise brought by Moran Cyber and the US Maritime Resource Center (USMRC). This 45-minute course provides mariners aboard any vessel with a better understanding of common vulnerabilities to onboard computer-based networks and industrial control systems to include both operational and information technologies (OT/IT). It also offers tested and effective guidance to help prevent cyber disruptions onboard. The course is derived from actual onboard research and analysis in the marine industrial environment, across numerous vessel types and maritime industry sectors. Vessel owners and operators as well as ship management and crew staffing companies will also benefit from the course.

**Cyber Awareness for Mariners** is delivered on the highly regarded Marine Learning Systems platform and provides an exam and a course completion certificate. This training aligns with:

- ✓ IMO Guidelines on Maritime Cyber Risk Management
- ✓ Guidelines for Cybersecurity Onboard Ships (Version 3)
- ✓ OCIMF Tanker Management Self-Assessment (TMSA 3)
- ✓ Cyber Risk Management Best Practices for the Towing Industry (Version 1.0)
- ✓ US Coast Guard Draft NVIC 05-17
- ✓ NIST Cyber Security Framework (CSF)





Registration for classes may be completed online via [www.usmrc.org/cyber](http://www.usmrc.org/cyber). For assistance with registration or to request additional information, please contact the USMRC registrar via telephone +1 (401) 849-0222 or email [info@USMRC.org](mailto:info@USMRC.org).



#### About Moran Cyber

Moran Cyber, a Division of Moran Shipping Agencies, Inc, offers maritime industrial cybersecurity services for principals owning and operating vessels, marine cargo handling facilities, and critical maritime infrastructure. Moran also provides contributing authorship to the Guidelines for Cybersecurity Onboard Ships.



#### About USMRC

USMRC is an independent, nonprofit marine operations and maritime risk research center and education institution focused on navigation and operational safety, maritime risk mitigation, human capital development, raising awareness of international shipping maritime trade and transport, and contributing to environmental stewardship. USMRC specializes in maritime simulation research and offers a portfolio of USCG-approved training courses.



#### Marine Learning Systems About Marine Learning Systems

Marine Learning Systems provides software to help operators continually advance their maritime training programs in a way that improves learning outcomes, safety and operational performance. Our focus is on providing learning technology and services that help organizations optimize the skills, knowledge and behaviour of their crew. We envision a world where all companies and their workers can continually improve their safety and productivity through targeted, effective and measurable training.