

ESLI SCHOOL OF LOGISTICS & GLOBAL SUPPLY CHAIN CLASSROOM

enhancing cargo handling operators' cyber risk sensitivity and management through a maritime/port-dedicated cyber risk management qualification

the challenge

Cargo handling is now using a wide range of cyber-physical assets. Cyber attacks are therefore a threat to cargo handling operations, and safety.

Unlike other supply chain members, ports are networks' actors which are themselves networks of actors. Cyber risk management strategies are therefore more difficult to design and implement as they require a proper alignment of a great variety of local stakeholders' financial and technical resources, as well as of cultural approaches of cyber security issues.

Along the whole process of cyber risk identification, assessment and mitigation, people's understanding of the, especially port-specific, dangers associated with cyber attacks, and their cyber risk mitigation capabilities are of the utmost importance for the global efficiency of this process.

Education and training programs fully dedicated to port cyber risk management can therefore usefully contribute to the enhancement of local operators' cyber risk sensitivity and management capabilities, ultimately improving cargo handling resilience and safety.

the innovation

The purpose of MAPO-CYM (MARitime & PORT CYber risk Management) curriculum is to train managers to:

- understand the challenges and specificities of cyber risk in maritime and port organizations;
- carry out audits of maritime and port processes, design and manage action plans;
- conduct risk analyses, identify vulnerabilities;
- apply methods and tools to anticipate, detect and mitigate cyber risks;
- define business continuity plans / disaster recovery plans;
- lead safety / security management within a maritime and port environment.

The program can be offered to professionals such as cyber risk professionals looking to extend their operation to the maritime, port industry and maritime professionals looking for education in cyber risk management. It can be used for people with no pre-knowledge both of the topic and of the industry, though some level of experience in risk management will be required.

The program is made of 5 modules:

- Marine industry

- Port communities
- Driving digital transformation in the maritime and port sectors
- Design and conduct a cyber risk management project in the maritime and port sectors
- Securing maritime transport and port transit operations and infrastructure

how it was implemented

The 1-year, 288-hr program can be operated on a hybrid mode: pre-recorded modules + online live sessions + 1 week on-site (participants who cannot attend on-site session will attend live online); modules can be validated separately with a specific certification; full certification is obtained when all modules are validated.

what was the result

MAPO CYM is an ongoing project, benefiting by the contribution and support of professional institutions and individuals to its design and operation.

conclusion

MAPO CYM is intended to open Q4 2026.

About TT Club

TT Club is the established market-leading independent provider of mutual insurance and related risk management services to the international transport and logistics industry. TT Club's primary objective is to help make the industry safer and more secure. Founded in 1968, the Club has more than 1100 Members, spanning container owners and operators, ports and terminals, and logistics companies, working across maritime, road, rail, and air. TT Club is renowned for its high-quality service, in-depth industry knowledge and enduring Member loyalty. It retains more than 93% of its Members with a third of its entire membership having chosen to insure with the Club for 20 years or more.

International Cargo Handling Coordination Association

Established in 1952, ICHCA International is an independent, not-for-profit organisation dedicated to improving the safety, productivity and efficiency of cargo handling and movement worldwide. ICHCA's privileged NGO status enables it to represent its members, and the cargo handling industry at large, in front of national and international agencies and regulatory bodies, while its Technical Panel provides best practice advice and develops publications on a wide range of practical cargo handling issues. Operating through a series of national and regional chapters, including ICHCA Australia, ICHCA Japan and Correspondence and Working Groups, ICHCA provides a focal point for informing, educating, lobbying and networking to improve knowledge and best practice across the cargo handling chain.

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Further Advice and Information

ICHCA International also offers a technical advisory service, with input from ICHCA Technical Panel, to answer member regulatory and operational cargo handling queries. For more information contact secretariat@ichca.com or visit www.ichca.com