



The practical voice of shipping

BIMCO MARITIME OPERATIONS ACADEMY 5-DAY TRAINING PROGRAMME

The BIMCO Maritime Operations Academy is an immersive journey through the dynamic landscape of vessel operations. Over five days, we will discuss a wide range of key themes shaping the industry's future and how vessel operators' daily tasks are changing as they embrace the decarbonisation of shipping, navigate geopolitical tensions, and embrace digitalisation - all at once.

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 **BIMCO TRAINING**

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Day 1: Decarbonisation

Day 1 focuses on Decarbonisation in the maritime industry. It begins with insights into CII and the European Union Emissions Trading System (EU ETS) and its impact on vessel operations. Throughout the day, we will cover the regulatory frameworks, explore alternative fuels, and discuss strategies for integrating decarbonisation into shipping operations while ensuring competitiveness and profitability.

09:30 - 10:00 Introduction to Day 1 and Keynote for Inspiration

10:00 - 12:00 Decarbonising Shipping

- Understanding the European Union Emissions Trading System (EU ETS) and its implications for the maritime industry in decarbonisation efforts
- Analysis of Carbon Intensity Indicator (CII) and Energy Efficiency Existing Ship Index (EEXI) regulations and their impact on vessel operations and compliance
- Exploring BIMCO contractual clauses related to decarbonisation and emissions reduction in shipping contracts.
- Implementing voyage planning strategies for a decarbonised world, including optimising routes, fuel efficiency, and emissions reduction measures
- Examining the "No speed to wait at anchorage" concept and its significance in reducing emissions and enhancing operational efficiency.

12:00 - 13:00 Lunch

13:00 - 15:15 The future market for fuels and bunkers for cargo ships

- Overview of current fuel sources for cargo ships and their environmental impact
- Analysis of emerging technologies and alternative fuels in the maritime industry
- Exploration of regulatory frameworks shaping the future market for fuels and bunkers
- Strategies for optimising fuel efficiency and reducing emissions in the short term (1-2 years)
- Forecasting future trends and potential disruptions in the global market for fuels and bunkers

15:15 - 15:45 Break

15:45 - 17:00 Practical Session:

- Case study: Best practices for integrating decarbonisation initiatives into shipping operations and commercial contracts while maintaining competitiveness and profitability.

Day 2: The Impact of Global Geopolitical Tensions

Day 2 covers the impact of global geopolitical tensions on the shipping industry. We will analyse the contractual implications and practical strategies for navigating geopolitical uncertainties in operations. Topics include force majeure clauses, managing disputes, and understanding regulatory compliance amidst shifting geopolitical landscapes.

09:30 - 10:00 Introduction to Day 1 and Keynote for Inspiration

10:00 - 12:00 Navigating Geopolitical Tensions in Shipping

- Understanding the contractual implications of geopolitical tensions on agreements with counterparties and service providers in the shipping industry
- Analysis of force majeure clauses and their applicability during periods of geopolitical instability, including considerations when confronted with possible termination of contracts.
- Exploring the impact of geopolitical tensions on laytime and demurrage calculations and the negotiation of charter party terms
- Strategies for managing disputes with contractual counterparts and service providers arising from geopolitical factors, including communication and negotiation tactics.

12:00 - 13:00 Lunch

13:00 - 15:15 Navigating Geopolitical Tensions in Shipping (continued)

- Understanding the geopolitical landscape and its impact on the shipping industry, including trade routes, port access, and regional conflicts impacting vessel operations.
- Analysis of BIMCO War Risk clauses for both voyage and time chartering, examining their provisions and implications for vessel operations during periods of heightened geopolitical tensions
- Exploring the BIMCO Sanctions clause for voyage and time chartering contracts and its role in mitigating economic sanctions and trade restrictions risks.
- Regulatory considerations and compliance measures (KYC) related to international sanctions regimes and their impact on shipping operations and contractual obligations.

15:15 - 15:45 Break

15:45 - 17:00 Practical Session:

- Case study: The practical applications of BIMCO War Risk and Sanctions clauses in addressing geopolitical challenges in contracts.

Day 3: Digitalisation of Maritime Operations

Day 3 covers a wide range of transformative technologies shaping the shipping industry. From Single Maritime Window systems to Electronic Bills of Lading and Artificial Intelligence (AI) applications, we will uncover the latest advancements, practical considerations, and strategies for embracing digital innovation in shipping.

09:30 - 10:00 Introduction to Day 1 and Keynote for Inspiration

10:00 - 12:00 Single Maritime Window, Electronic Bills of Lading (eBills)

- Introduction to Single Maritime Window (SMW) systems and their role in digitalising and streamlining maritime trade processes.
- Overview of Electronic Bills of Lading (eBills) and their advantages over traditional paper-based bills of lading in terms of efficiency, security, and sustainability
- Exploration of the technical and legal framework supporting the implementation of eBills within the SMW ecosystem
- Practical considerations for adopting and integrating eBills into existing shipping and logistics operations, including system compatibility and data security measures.

12:00 - 13:00 Lunch

13:00 - 15:15 Artificial Intelligence (AI) in ship and cargo operations

- Overview of Artificial Intelligence (AI) applications in ship and cargo operations, including predictive maintenance, route optimisation, and cargo management systems
- Analysis of AI-driven technologies such as machine learning, natural language processing, and computer vision and their role in enhancing efficiency and decision-making in maritime operations
- Exploration of case studies showcasing successful implementations of AI in various aspects of ship and cargo operations, from fleet management to port logistics
- Discussion on the benefits and challenges of integrating AI into maritime workflows, including considerations for data privacy, cybersecurity, and regulatory compliance.

15:15 - 15:45 Break

15:45 - 17:00 Practical Session:

- Case study: Successful SMW and eBills systems implementations in different maritime contexts, highlighting benefits and challenges. Discussion on strategies for fostering a culture of innovation and continuous improvement through adopting AI technologies in the maritime industry.

Day 4: Field Excursion

Day 4 of our program features a field excursion to DP World, where participants will gain insights into the UAE's Smart Port concept. From Artificial Intelligence and Machine Learning to Blockchain Technology and Automated Systems, explore how innovative technologies are revolutionising port operations. Lunch will be provided before returning for an introduction to Day 5's "BIMCO Lions's Den" session, aimed at fostering innovation and collaboration among participants.

09:00 - 13:00 Visit to DP World and presentation on the UAE's Smart Port concept

- Gain insights into innovative technologies shaping port and cargo operations.
- Understand the role of Artificial Intelligence and Machine Learning in enhancing operational efficiency.
- Explore the applications of the Internet of Things (IoT) in real-time monitoring and management.
- Analyse the benefits of Blockchain Technology in ensuring transparency and security.
- Learn about Automated and Robotic Systems' role in reducing human involvement and improving efficiency.

Artificial Intelligence (AI) and Machine Learning enhance operational efficiency, proactive maintenance, and intelligent decision-making by employing predictive analytics. The Internet of Things (IoT) facilitates real-time monitoring and management of cargo, equipment, and environmental conditions, optimising resource allocation and reducing downtime. Blockchain Technology ensures transparency, security, and efficiency in transaction documentation and processing, significantly reducing errors and fraudulent activities. Automated and Robotic Systems, like automated cranes and self-driving cars, handle container operations, reducing human involvement while improving efficiency and precision.

13:00 - 14:30 Lunch and heading back to the training venue.

15:00 - 17:00 Introduction to the BIMCO Lions's Den on day 5.

- Introduction to the full-day exercise on Day 5, which is a dynamic group session designed to stimulate innovation and fresh thinking related to the subjects addressed at the BIMCO Maritime Operations Academy.
- Explore strategies for fostering a culture of innovation by adopting advanced technologies.

Modelled loosely after the TV show "Dragon's Den," the BIMCO session mirrors its premise, where participants are encouraged to present their novel business concepts to an external senior leadership team, akin to pitching to investors for funding. In Dubai, BIMCO will enlist senior figures from the local shipping community as judges.

This session aims to ignite innovation among all participants, regardless of their role or position. The underlying belief is that everyone harbours valuable ideas, irrespective of background or daily responsibilities. Given a suitable platform and learning environment, these ideas can emerge and evolve into new or refined services, processes, and structures beneficial to the organisation.

Day 5: Group Work – The BIMCO Lion’s Den

The BIMCO Lion’s Den offers a platform for innovation. Teams are tasked with crafting business concepts aligned with specific themes covered during the BIMCO Operations Academy. With access to creative tools and guidance, participants embark on a journey to develop pioneering ideas. Presentations are followed by judges’ inquiries, ensuring thorough understanding and feasibility.

During the full-day exercise, participants will collaborate in groups of up to six, selecting a theme inspired by the training program and BIMCO Maritime Operations Academy topics. The objective is to equip each participant with a repertoire of ideas generated by the entire group of participants to take back to their respective companies. Upon return, these ideas can then facilitate internal discussions and align with the themes explored during the BIMCO Maritime Operations Academy.

09:00 - 09:30 Introduction to Day 5 and Inspirational Keynote

- Setting the stage for innovative thinking.

09:30 - 10:00 Introduction and Group Formation

- Teams will choose - or be assigned - specific themes or ideas for the day.
- Participants will learn about the innovation process and receive templates as guidance, including a list of prepared themes for further development, if necessary

10:00 - 14:00 Group Work – Creating New Innovations

- Each team will have access to a meeting room equipped with tools to aid the creative process.
- All Teams upload their presentations.

Lunch and refreshments will be provided in the meeting rooms for each group.

14:00 - 14:30 Break

14:30 - 17:00 Team Presentations

- Each team has a maximum of 10 minutes to present their business case, including demonstrations.
- Judges will have 10 minutes to ask questions to ensure clarity on:
 - Description and value proposition.
 - Resource requirements (internal/external) for implementation.
 - Funding needs (if any).
 - Expected timeline from vision to launch.

Contrary to the “Lion’s Den” TV show, there are no winners or losers. Instead, all participants get a repository of ideas in the form of the all the presentations and papers submitted by all the groups to bring back for inspiration after the training week has ended.



For more information, please contact:
Bagsvaerdvej 161, DK-2880 Bagsvaerd, Denmark
Tel: +45 4436 6832
Email: training@bimco.org
Web: www.bimco.org/training

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