

INTRODUCTION TO BATTERIES

COURSE OBJECTIVES

To provide participants with foundational knowledge of marine battery systems, including battery types, construction, charging and discharging principles, maintenance practices, battery safety, emergency response procedures, lithium-ion technologies, battery management systems, and environmental considerations for safe and efficient maritime operations.

ABOUT THE COURSE

This one-day training programme provides participants with essential knowledge of marine battery systems and their role in shipboard electrical operations, emergency power, and hybrid propulsion systems. The course covers battery fundamentals, battery types, charging and maintenance procedures, safety hazards, lithium-ion systems, emergency response, and regulatory requirements.

Participants will gain practical understanding of battery safety, inspection techniques, battery management systems (BMS), and best practices for safe and reliable battery operations onboard vessels.

PARTICIPANTS

Deck Officers, Engine Officers, ETOs and Technical Staff, Ship Crew and Ratings, Port and Terminal Personnel, Safety Officers, Marine Engineers, Maritime Training Personnel

DURATION

One day (Six Hours)

KEY TOPICS

- Introduction to Marine Battery Systems and Battery Types
- Charging, Discharging, and Battery Management Systems (BMS)
- Battery Maintenance and Operational Best Practices
- Safety Hazards and Emergency Response Procedures
- Lithium-Ion Technologies and Environmental Considerations

TRAINERS



CE Saurabh Kaushik

Mr. Saurabh Kaushik joins Charismight as Superintendent (Technical). A veteran maritime professional, he brings over 20 years of experience operating LPG, LNG, and Ammonia carriers. His expertise in operations and training strengthens Charismight's commitment to