

# AMMONIA BUNKERING

**COURSE OBJECTIVES** To equip participants with in-depth knowledge and practical skills on ammonia bunkering operations, including safety measures, regulatory compliance, handling procedures, emergency preparedness, and environmental considerations for the maritime industry.

**ABOUT THE COURSE** This comprehensive program covers ammonia as a clean maritime fuel and focuses on the specific requirements and challenges of ammonia bunkering. It includes an overview of ammonia's physical and chemical properties, safety risks, storage and handling requirements, bunkering equipment and infrastructure, regulatory frameworks, detailed bunkering procedures, and emergency response planning. Participants engage with real-life incident analysis and best practices to enhance operational safety and regulatory compliance.

**PARTICIPANTS** Marine engineers, Ship operators & managers, Safety officers & crew members, Bunkering and fuel handling teams, Maritime regulatory and compliance professionals

**DURATION** One day

## KEY TOPICS

- Introduction to Ammonia as a Marine Fuel
- Ammonia Properties, Storage & Handling Requirements
- Ammonia Bunkering Equipment & Infrastructure
- Safety Risks, Emergency Response & Incident Analysis
- Regulatory Compliance & Ammonia Bunkering Procedures

## 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 excellence.



### **CE Amratlal Panwar**

CE Amratlal S. Panwar joins Charismight. He brings extensive expertise in tanker operations, LPG carriers, shore management, and technical supervision. Specializing in maritime training, decarbonization, and operational excellence, he strengthens Charismight's mission to deliver high-quality maritime consultancy and technical solutions.