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Academy



# Methanol for Maritime

Improve your knowledge of the characteristics & chemical properties of methanol and how it can effectively perform as a marine fuel.

LIVE ONLINE TRAINING

2 - 3 October 2024



Live Digital

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**2+1  
Offer!**

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for details!

# Course Information

LIVE ONLINE TRAINING

October 2024

Part 1

2 October

Part 2

3 October

12pm - 3pm SGT

## Key Learning Objectives

- Improve your knowledge of the characteristics & chemical properties of methanol and how it can effectively perform as a marine fuel
- Gain insights into how you can overcome the complexities of the end-to-end supply chain of methanol production and utilisation
- Understand the technical challenges for the utilisation of methanol fuel and how they can be overcome
- Evaluate how you can design and operate methanol bunkering vessels as well as related supply chain infrastructure
- Find out how port operators can plan, develop and operate methanol terminals and methanol fuel bunkering networks for cost-efficient and safe distribution, storage, transfer and utilisation
- Evaluate how methanol can be adopted at scale in a sustainable and economically viable manner
- Learn about feasible technologies, engines and systems that can be used for methanol adoption
- Understand the safety aspects and considerations around the use of methanol as a maritime fuel and how you can mitigate the safety risks involved
- Find out in-depth about ship design and bunkering infrastructure through case studies and practical insights
- Improve your knowledge of the economics and business models for the use of methanol fuel in the maritime industry

## Who Will Benefit

This maritime course is aimed at all shipping & ports industry professionals, government agencies, marine energy companies, and technology & infrastructure players who are stakeholders of the ammonia value chain, with an interest, responsibility and the need to grasp knowledge in developing infrastructure, plans and strategies to adopt methanol fuel in the maritime sector.

## Meet Your Course Director



**Charley Rattan**

Hydrogen and offshore wind business advisor and trainer.

The course is led by Charley Rattan, international hydrogen expert and respected energy insider and facilitator bringing over 25 years' real-world renewable experience and a track record of successful major project delivery. Charley is a trusted strategic advisor to global energy companies and an advocate and facilitator for the emerging innovation energy market.

Charley's is respected as a leading authority in hydrogen and renewables providing consultancy and training at high level across the globe including for key stakeholders, governments, consenting authorities and world organisations such as the United Nations.

# Course Information

## About the Course

Methanol serves as an excellent alternative marine fuel for the shipping world because it can be stored onboard in liquid form at ambient temperature and atmospheric pressure. On top of that, methanol handling and power conversion technologies are mature, not to mention there is a strong level of infrastructure already exists in ports.

Furthermore, methanol's comparatively low pollutant emissions make it a good fuel choice for owners looking to meet environmental targets. It is also considered one of the most promising alternative marine fuels to reduce greenhouse gas (GHG) emissions within the maritime industry, which aligns with the International Maritime Organization (IMO) strategy to reduce CO2 emissions by 2050.

Methanol will be an important future marine fuel and adoption. However, there are still economical, availability, technical, infrastructure and safety challenges that need to be overcome. Additionally, there needs to be greater knowledge of the characteristics of methanol-fuelled shipping operations in the maritime industry, particularly among shipping companies & port operators, before it can be adopted at scale as a maritime fuel.

This Methanol for Maritime training will dive deep into best practices and solutions around the use of this alternative marine fuel, technologies, strategies & business models around it, technical & safety aspects of ammonia as a marine fuel, how ports & shipping companies can design, plan and develop their infrastructure & facilities to support the adoption methanol fuel.

Through case studies, practical insights and actual project experiences, this interactive methanol fuel training online will cover all of the above and more to provide you with information that can really help you grasp practical knowledge, technical understanding and economics to successfully adopt & support methanol as a marine fuel.

## Course Outline

### OVERVIEW OF THE METHANOL MARKET FOR THE MARITIME INDUSTRY, METHANOL PROPERTIES & APPLICATIONS

- Identifying drivers of demand for methanol marine fuel and the development of port infrastructure catering to this alternative gas
- Evaluating recent trends and global case studies for methanol uptake
- Evaluating the role of methanol in energy transition strategies and policies
- Classification & evaluation of different types of methanol cells
- Properties of methanol as a marine fuel
- Methanol engines and generalities about the combustion, engine ancillaries and the liquid fuel supply systems

### UNDERSTANDING METHANOL PRODUCTION TECHNOLOGY & PROCESSES

- Methanol technologies and applications
- How is methanol produced?
- Methanol production from fluctuating renewable sources
- Electricity availability and costs
- Water electrolysis
- Production pathways
- Analysis of the various production sources
- Production & cost of production of methanol,
- Methanol extraction and purification

- Chemical processes
- Mapping existing methanol production
- Scaling up methanol production for shipping
- Understanding the global supply chain for methanol production
- Chemical processes
- Refinery operations
- Common challenges for methanol production – how to overcome them and their implications for the maritime industry

### VESSEL DESIGN & CONFIGURATIONS FOR METHANOL

- What needs to change for the uptake of methanol?
- Naval architecture
- Design, layout, processing & technological considerations
- Ensuring your vessel deals with the challenges of methanol
- Managing safety concerns for methanol marine fuel when used for maritime
- Driving efficiency and fuel cost reduction through your vessel design & construction
- Design optimisation to reduce fuel storage costs
- Strengthening the business case and reducing supply risk exposure through vessel design and planning

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2 - 3 October 2024

## Easy Ways to Register



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+65 6989 6507



[sgtraining@informa.com](mailto:sgtraining@informa.com)

## Methanol for Maritime

| Course Code  | Location/ Format | Course Parts | Course Dates       | Standard Price     | <b>2 + 1 Offer:</b>  |
|--------------|------------------|--------------|--------------------|--------------------|--|
| P24GR60SG02V | Live Digital     | All 2 Parts  | 2 - 3 October 2024 | <b>SGD \$1,895</b> | Enroll for two participants, and the third one attends for <b>FREE!</b> Contact us now at <b>+65 6989 6507</b> or email <b>sgtraining@informa.com</b> to take advantage of <b>2+1 Offer today!</b> |

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## ABOUT INFORMA CONNECT ACADEMY

**Informa Connect**

# Academy

**Informa Connect Academy** is a premier provider of global education and training solutions that caters to a diverse range of professionals, industries, and educational partners. We are dedicated to promoting lifelong learning and are committed to offering learners expert guidance, training, and resources to help them stay competitive in a rapidly changing world.

Our comprehensive range of courses and programmes are tailored to meet the needs of all professionals, from aspiring specialists to seasoned experts. We partner with elite academic organisations and industry leaders with unmatched expertise in their respective fields to deliver an exceptional learning experience.

## ON-SITE & CUSTOMISED TRAINING

**Informa Connect Academy** has a long-standing track record of delivering very successful customised learning solutions achieving real and measurable value for our clients through our senior training consultants. If you have 8+ interested people, an on-site course can be the ideal solution – giving you the opportunity to customise our course content to your specific training needs, as well as attracting significant savings compared to public course costs.

## WHY CHOOSE ON-SITE WITH INFORMA CONNECT ACADEMY?

- 1. Custom design** – Together, we will identify the best blended learning solution for your culture, your people and your training objectives.
- 2. Quality assured** – We design market-leading training programs, concepts and methodologies, with a 400+ course portfolio. Our rigorously selected 900+ instructor faculty are recognised experts in their field. Quality of their content and delivery methods is assured through continuous monitoring and evolution.
- 3. On-site training** is a cost effective way to train your people and achieve your defined outcomes.

Speak with **Sushil Kunwar** on **+65 6989 6620** to discuss your customised learning solution, or email [sginhouse@informa.com](mailto:sginhouse@informa.com)

+65 6989 6507

[sgtraining@informa.com](mailto:sgtraining@informa.com)

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