Global Horizon
TRAINING CENTER

Training Course:
Bunker Fuel Classification, Specifications & Analysis Procedures

9 - 13 June 2025
Cape Town (South Africa)
DoubleTree by Hilton Cape Town - Upper Eastside

Training Course:
Bunker Fuel Classification, Specifications & Analysis Procedures

Training Course code: MM235775 From: 9 - 13 June 2025 Venue: Cape Town (South Africa) - DoubleTree by Hilton Cape Town - Upper Eastside Training Course Fees: 7140 Euro

Introduction

Bunker fuel is a critical component in maritime operations, requiring precise classification, specification adherence, and rigorous analysis to ensure compliance with environmental and operational standards. This training program, designed by Global Horizon Training Center, is specifically tailored for professionals working in Laboratory Units, focusing on bunker fuel testing, quality assessment, and compliance procedures. Participants will gain an in-depth understanding of fuel classification, industry specifications, and the latest analytical techniques for fuel evaluation.

Objectives

By the end of this training program, participants will be able to:

- Understand the classification of bunker fuels and their significance in maritime applications.
- Identify key specifications and regulatory standards ISO 8217, MARPOL Annex VI, etc..
- Conduct laboratory tests to analyze bunker fuel properties and quality.
- Evaluate contamination risks and implement best practices in fuel handling.
- Interpret fuel test results and troubleshoot potential quality issues.
- Enhance compliance with international and environmental regulations.

Organizational Impact

Implementing a structured approach to bunker fuel analysis will provide organizations with the following benefits:

- Improved fuel quality control and operational efficiency.
- Compliance with international maritime fuel standards and environmental regulations.
- Reduction in fuel-related machinery failures and maintenance costs.
- Enhanced laboratory testing capabilities and accuracy in fuel analysis.
- Strengthened credibility and trust with regulatory authorities and clients.

Target Audience

This training program is specifically designed for professionals working in Laboratory Units, including:

- Laboratory Analysts and Technicians
- Fuel Quality Inspectors
- Marine Chemists and Petroleum Analysts
- HSE and Compliance Officers
- Engineers responsible for fuel testing and evaluation

Outlines

Day 1: Introduction to Bunker Fuel and Classification

- Overview of bunker fuel types and their characteristics
- Importance of fuel quality in maritime operations
- Classification systems Residual vs. Distillate fuels
- International standards governing bunker fuels
- Case study: Fuel classification in real-world applications

Day 2: Fuel Specifications and Regulatory Compliance

- Understanding ISO 8217 fuel specifications
- MARPOL Annex VI and its implications for fuel quality
- Sulfur content regulations and compliance monitoring
- Environmental impact of bunker fuels and emissions control
- Practical session: Reviewing fuel specification reports

Day 3: Laboratory Analysis of Bunker Fuel

- Essential laboratory testing methods for fuel analysis
- Sampling techniques and contamination risks
- Key fuel properties: Viscosity, Density, Sulfur Content, Water & Sediment
- Fuel stability and compatibility testing
- Hands-on exercise: Conducting basic fuel tests in a lab setting

Day 4: Fuel Contamination and Quality Control

- Common contaminants in bunker fuel and their effects
- Water ingress, microbial growth, and chemical contamination
- Identifying and mitigating off-spec fuel issues
- Best practices for fuel handling, storage, and quality control
- Group activity: Troubleshooting real-life fuel contamination cases

Day 5: Advanced Analytical Techniques and Troubleshooting

- Advanced laboratory testing methodologies GC-MS, FTIR, etc.
- Interpretation of test results and diagnostic techniques
- Fuel blending and compatibility assessments
- Corrective actions and mitigation strategies for off-spec fuel
- Final assessment and implementation plan for laboratory best practices

Registration form on the Training Course: Bunker Fuel Classification, Specifications & Analysis Procedures

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

Delegate Information

Full Name (Mr / Ms / Dr / Eng): .....
Position: .....
Telephone / Mobile: .....
Personal E-Mail: .....
Official E-Mail: .....

Company Information

Company Name: .....
Address: .....
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Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....
Position: .....
Telephone / Mobile: .....
Personal E-Mail: .....
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Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
- ☐ Please invoice me
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Easy Ways To Register

Telephone: +201095004484 to provisionally reserve your place.	Fax your completed registration form to: +20233379764	E-mail to us : info@gh4t.com or training@gh4t.com	Complete & return the booking form with cheque to:Global Horizon 3 Oudai street, Aldouki, Giza, Giza Governorate, Egypt.