

## 5-day Training Course for

Marine Engineers & Superintendents



## Course Content:

### 1. SEEMP & Efficiency Improvement:

- IMO's CO2 Emission Regulations
- Ship Energy Efficiency Mgt. Plan (SEEMP) and EEDI
- Slow & Super Slow Steaming

### 2. Diesel Engine Performance & Trouble Shooting:

- Engine Performance Measurement & Evaluation.
- Engine Problem Trouble Shooting & Root Cause Analysis
- Fuel Cons. Measurement, Evaluation & Improvement
- Introduction to Electronic Injection/Common Rail Engines

### 3. Marine Fuel Management :

- Fuel Quality & Specifications (ISO 8217 2005/2010)
- Fuel Oil Properties and their Significance
- On-board Fuel Pre-treatment & Conditioning
- Bunkering, Sampling, Analysis and Trade Tricks

### 4. New Emission Control Regulations :

- Present & Future Emission Control Areas "ECA"
- Europe SECA; North American ECA, CARB, etc.
- LOW SULFUR Fuel – Technical & Operational Challenges
- Fuel Change-over Procedures & Guidelines



## Course Objectives/Summary:

- Participants will understand & learn to Operate and Maintain Diesel Engines, Effectively & Efficiently.
- Company will reduce energy & operating costs, improve ship reliability and meet Environmental Regulations.
- The Course complies with IMO's MARPOL ANNEX VI Regulation specifically The prevention of Air Pollution from Ships and with Reference to Resolution MEPC. 213/(63) page 5, Paragraph 4.1.6.

## Schedule and In-house training:

- The course is regularly being conducted at hotel or training center.
- For economy, convenience and tailor fitted topics, training can be done in-house and exclusive to a company either on their facility or other venue.

## Course Trainer/Facilitator: Albert Aloc



**Albert** is the Chief Consultant/Founder of Aloc Energy Consulting. He was a former Tech Supt., Capability Devt. Mgr. and Tech Mgr./Director from various international shipping companies. He also worked as Sr. Lecturer at **Wartsila**, Fuel & Lubrication Engr. at **SHELL**, Engine Instructor at **K-Line**, and Performance Engr./Consultant at **Hoegh Lines**. Albert also held Senior Management positions in Power Industry such as Plant Mgr. at **Rolls-Royce** and Director/VP for Power Generation at **Covanta Energy** (an American Independent Power Producer).

