

A Program in

## Electronically Controlled Marine Diesel Engines

*(Special focus on B&W ME B/ C)*

### Highlights of the Program:

- Hands-on training on indigenously developed ME MOP Simulator.
- Practical know how of various electronic and Hydraulic components & Systems via 3D Animations.

### Program Objectives

On completion of this programme, the participant will be able to:

- ✓ Provide confidence to marine engineers in operation and management of large 2 Stroke Cam less Marine Diesel Engines which are electronically controlled.

### Program Contents

- ✓ Introduction to Electronically controlled engines: difference between RT Flex and B & W technology
- ✓ B&W ME technology– Improvements over conventional engines, concept and terminology
- ✓ Concepts of Electronic and Computer Controls - Inputs and Output Modules, Embedded Systems, Wiring and Communication Cable concepts, Trouble Shooting techniques
- ✓ Hydraulic power supply unit
- ✓ Hydraulic cylinder units with emphasis on FIVA, Cylinder Lubrication and adjustments
- ✓ Fuel System & Adjustment
- ✓ Exhaust System & Adjustment
- ✓ Engine Control System including various MOP Displays and overview of various adjustments. ME Engine Performance Monitoring & CoCoS-EDS
- ✓ Case Studies & Discussions



IMO – ECMDE. Rev: 1.0/October 2018



**Program Duration:** 3 days/21 hours

**Target Participants:** Marine Engineers at Management and Operational Levels.



## Our Trainers

### **Pankaj Dalvi**

Mr. Pankaj Dalvi graduated from DMET in 1995, and has since worked on Bulk carriers, Containers, Tankers, LPG ships and also onboard offshore supply vessels. His shore experience includes exposure to crewing and training with NYK Ship Management. As Promoter and Managing Director of Trigen Marine, Pankaj has years of experience in providing superintendence, technical support and guidance onboard to staff and technical managers for all types of vessels. Pankaj has been with ISF Group as a trainer for over 5 years and has trained over 300 seafarers in the field of marine engineering, electronics, electricals.



### **Prathamesh Dange**

Prathamesh Dange is a sailing marine engineer. He has been involved setting up of technical workshop for training of marine engineers and as a visiting faculty for various research related training programs. He has been instrumental in developing Distance Learning Programs for Junior Engineers and Trainee Electro technical Officers at ISF Group.



### **Milind Ashar**

Experienced Second Engineer with a demonstrated history of working in the maritime industry. Skilled in Marine Engineering, Maritime Operations, Operation and Maintenance of 2-Stroke and 4-Stroke Diesel Engines, International Shipping. Strong engineering professional with a Bachelor of Science (B.S.) focused in Naval Architecture and Marine Engineering from Tolani Maritime Institute. When not at sea, he provides freelance support to educational institutions in development and execution of maritime skill development courses.

