



### **Operations and Maintenance of FRAMO Cargo Pumping System (FRAMO)**

**Duration:** Three days

**Conducted at:** Mumbai

#### **Objective:**

This course has been designed by FRAMO and conducted by SIMS. This course is meant for all officers on board ships fitted with FRAMO cargo pumping system. The course covers the hydraulics, controls, cargo pumping theory with associated practical.

Trouble shooting, testing alarms & interlocks are included. The cargo tank with working FRAMO hydraulic system installed at SIMS is used to demonstrate Loading, Discharging, Stripping, Emergency operation with Portable pump and Cofferdam purging operations.

#### **Subject Areas:**

Introduction  
General Arrangement and Hydraulic Circuit  
Hydraulic Oil and Filtration  
Control Valves  
FRAMO Cargo Pump  
Operation of Cargo Pumps  
Dismantling and assembling of cargo pump

#### **USP:**

- 1 Only one of its kinds with actual stainless steel tank and FRAMO system in our Tank room
- 2 Fully fitted- out cargo tank replica with FRAMO pump- one of its kind in the world

#### **Eligibility:**

All Shipboard officers and engineers