





Certificate No. Registration No.

CERTIFICATE OF COMPLETION

This certificate is issued to

for having attended the

Diesel Plant Course for Junior Engineer

Topics:

Engine Control System

- Schematic Layout of the Engine Control System
- Electric Circuit
- Directional Control Valves
- Maintenance of Directional Control Valves
- Electric Source and Components
- Engine Control Diagram (Flow Chart)

Maintaining a Safe Engineering Watch

- General Precautions in Watch-keeping at Sea
- Taking Over and Accepting Engineering Watch
- Main Engine System Checkpoints
- Generator System Checkpoints
- Turbo Generator Checkpoints
- Stern Tube Checkpoints
- Boiler System Checkpoints
- Steering Gear System Checkpoints
- Checkpoints for Other Auxiliary Machineries

Diesel Plant Course

- Standard Signals
- Feedback Control System
- Feed Forward Control System
- Cascade Control System
- PID Action (Proportional, Integral, Derivative)
- Pneumatic Control Valve
- Boiler Remote Level Indicator and Alarm System
- Meter Body and Pneumatic Transmitter
- Resistance Temperature Detectors
- Thermocouple Action
- Switchboards (Main, Emergency, Distribution)
- Emergency Stop and Preference Trip
- Requirements for Parallel Operation
- Electric Shock
- High Voltage Switchboards

CAPT. ELISEO Z. CLEMENTE, JR. General Manager