



**Certificate No.**

**Registration No.**

# **CERTIFICATE OF COMPLETION**

*(NMC Course no. 28)*

*This certificate is issued to*

*for having successfully completed the training in*

## ***Refrigerator Machinery Training***

*Summary of Contents:*

- *Refrigeration Cycle and Refrigerant*
  - *Refrigeration Cycle*
  - *Pressure-enthalpy Diagram*
  - *Properties of Refrigerant*
- *Structure and Function of Various Equipment*
  - *Compressor, Condensers, Expansion Valve, Evaporator, Safety Devices, etc.*
  - *Procedure for Charging Refrigerant Gas and Oil*
- *Refrigeration Unit for Reefer Container*
  - *General Arrangement and Safety Devices*
  - *De-frost Device and Control Circuit*
  - *Method of Understanding Temperature Recording Chart*
- *Troubleshooting Exercises on Refrigeration System Simulator*

***This certificate is valid on vessels managed or manned by NYK SHIPMANAGEMENT PTE LTD.***

**CAPT. ELISEO Z. CLEMENTE, JR.**  
General Manager



**NYK Maritime College**