

**Brief description on the requirements of
the Polar Code Part I-A Chapter 1 to Chapter 11**

Chapter		Description
1.	General	Every ship to which this code applies shall have on board a valid Polar Ship Certificate.
2.	Polar Water Operation Manual (PWOM)	Polar Water Operation Manual (PWOM) – It shall be carried on board, includes the ship-specific operational capabilities and limitations to support decision making by the owner, operator, master and crew.
3.	Ship Structure	Scantlings of category A, B and C shall be approved by the Administration or recognized organization. A category C ship need not be ice strengthened if the Administration accepts the ship's structure is adequate for its intended operation.
4.	Subdivision and Stability	Ensure adequate subdivision and stability in both intact and damaged conditions during periods where ice accretion is likely to occur.
5.	Watertight and Weathertight integrity	Provide measures to maintain all closing appliances and doors relevant to watertight and weathertight are functional and shall be operated by personnel wearing heavy winter clothing including thick gloves.
6.	Machinery Installations	Ensure machinery installations are functional in severe weather condition for safe operation of ships;
7.	Fire Safety/Protection	Ensure fire safety systems and appliances are effective and the escape routes are available.
8.	Life Saving Appliances and Arrangements	Provide safe escape, evacuation and survival, resources provided to support survival following abandoning ship, whether to the water, to ice or to land, shall be for a period of 5 days at least.
9.	Safety of Navigation	Nautical information should be able to received; Navigational equipment should be functional in the operating environment (strengthen requirements in echo sounder, bridge visibility, antennas, underwater sensors protection, bridge wings and compass); and Additional navigational equipment (search light and astern flash red light for escort).

Chapter		Description
10.	Ship communication	Provide effective communication for ships and survival craft during normal operation and in emergency situations taking into account the limitations of communications systems in high latitudes and the anticipated low temperature, required equipment including: sound signaling system mounted to face astern, two-way on-scene and SAR coordination communication capability including voice communications with aircraft on 121.5 and 123.1 MHz, with Telemedical Assistance Service in ship; and devices for transmitting ship to shore alerts, signal for location and device for on-scene communications in survival crafts.
11.	Voyage Planning	Ensure that the Company, master and crew are provided with sufficient information to enable operations to be conducted with due consideration to safety of ship and persons on board and, as appropriate, environmental protection.