
# Polar Code

Delivery Method: eLearning || Duration: 5 hours || Course Fee: 380 €

Category: Rules and Regulations; Class & Statutory Surveys

Available languages: English

## Certificate

On completion of the training program, the student will be awarded:

- A Certificate of **Polar Code**, issued by Bureau Veritas Solutions Marine & Offshore.

The Certificate of **Polar Code** is obtained after completion of the course and passing the online test.

## Presentation

This training course composed of 4 modules provides an overview of the Polar Code. It includes a general presentation of the Polar Code, the certification process, the safety requirements and the environmental protection requirements.

## Whom the course is for

The course **Polar Code** is aimed at anyone interested in understanding the background, the certification process and the safety and environmental requirements for ships sailing in polar waters. This may include: Ship Managers, Technical Superintendents, Ship Masters, Officers and Seafarers; Shipyards Technical Staff; Surveyors; P&I and/or Insurance Inspectors; Naval Architects; Marine Engineers; etc.

## Objectives

On completion of the training, students will be able to:

- Understand the main sources of hazards associated with the operations in polar waters and be familiar with the general principles, structure and philosophy of the Polar Code.
- Know the main steps of the certification process, the operational assessment methodologies used to establish the operational limitations in ice operations, the requirements and contents of the Polar Water Operational Manual, and the survey and certification requirements.
- Have a general understanding of the safety requirements concerning ship's design and construction, machinery installations, safety equipment and fire protection, safety of navigation and communication equipment.
- Get familiar with the requirements for operations in polar waters and training of crew.
- Understand the Polar Code requirements for protection against oil pollution, NLS pollution, sewage pollution and garbage disposal.

# Program

## Module 1 – The Code

- Introduction
  - Operating in polar waters
  - Main sources of hazards
  - Definitions
- Regulatory framework
  - Overview
  - Application
- The Polar Code
  - General principles
  - Philosophy of the Code
  - Structure of the Code
  - Table of contents
  - Ship categories
  - Mean Daily Low Temperature (MDLT)
  - Polar Service Temperature (PST)

## Module 2 – Certification Process

- Certification overview
- Operational assessment
  - Introduction
  - Main steps
  - Template
- Polar Water Operational Manual
  - Introduction
  - Operational capabilities and limitations
    - Operation in ice
    - Operation in low air temperatures
    - Communication and navigation capabilities in high latitudes
    - Voyage duration
  - Ship operations
    - Strategic planning
    - Arrangements for receiving forecast and environmental conditions
    - Verification of hydrographic, meteorological and navigational information
    - Operation of special equipment
    - Procedures to maintain equipment and systems functionality
  - Risk management
    - Risk mitigation in limiting environmental condition
    - Emergency response
    - Coordination with emergency response services
    - Procedures for maintaining life support and ship integrity in the event of prolonged entrapment by ice
  - Escorted operations and convoy operations

- Surveys and Certification
  - HSSC Guidelines
  - Compliance process
  - Polar Ship Certificate
  - Record of Equipment
  - MARPOL requirements
- Polaris
  - Guidance
  - Methodology
  - Risk assessment and Risk Index Outcome (RIO)
- BV Rules

## Module 3 – Safety Requirements

- What does the Polar Code mean for safety?
- Design and Construction
  - Structure
  - Stability and subdivision
- Equipment
  - Closing appliances
  - Machinery installations
  - Machinery and propulsion
- Fire protection
- Life-saving appliances
  - Escape routes
  - Evacuation
  - Survival equipment
- Operations and manning
  - Navigation
  - Communication
  - Voyage planning
  - Training

## Module 4 – Environmental protection

- How the Polar Code protects the environment?
- Pollution prevention
  - Introduction
  - Oil pollution
    - Fuel oil tanks, cargo oil tanks and sludge tanks
    - Heavy fuel oil and lubricants
  - NLS pollution
  - Sewage pollution
  - Garbage disposal