



## **PROGRAMMED DCS SECTION SURVIVAL AT SEA LEVEL I**

### **MODULE I**

#### **EMERGENCY CASES (Emergency Situations Case Studies)**

- Water Ingress
- Beaching
- Grounding
- Collisions with Shallows
- Boarding or Collision
- Fire and/or Explosion
- Bad Weather
- Man Overboard
- Stability Problems
- Loss of Steering
- Structural Failures of the Ship

### **MODULE II**

#### **FACTORS INVOLVED IN EMERGENCY SITUATIONS**

- Structural Factors
- Human Factors

- Obligations
- Adaptation Factors between Man and Machine
- Organization of Human and Technical Personnel according to the organizational chart and
- Knowledge of the organizational chart and obligations.

### **MODULE III**

#### **PERIODIC EXERCISES**

- Abandon Ship Drill.
- Firefighting Drill.
- Other Exercises.

### **MODULE IV**

#### **CONCLUSIONS**

- Recording of incidents or anomalies in the intervention or navigation log.
- Crew meeting with analysis of the intervention.
- Entries in the Radiotelegraph Log and Engine Log.
- Safety Signaling of Equipment and Survival Devices.

### **MODULE V**

#### **SAFETY SIGNALING**

- Safety Signs.

- Individual Lifesaving Devices.
- Collective Lifesaving Devices and Boarding Systems.
- Emergency Signaling Equipment.
- Assembly and Boarding Points.
- Operational Signs.
- Reflective Tape.
- Principle of Retroreflection in Lifeboats, Life Rafts, Life Rings, Life Jackets, Immersion Suits.

## **MODULE VI**

### **SAVING DEVICES**

- Rescue Boat
- Lifeboat
- Survival Craft. Life Raft.
- General Principles of Survival.

## **MODULE VII**

### **SURVIVAL PRIORITIES**

- Protection
- Organization
- Situation
- Water

- Food
- Will to live.

## **MODULE VIII**

### **SURVIVAL PROBLEMS ABOARD RAFTS AND LIFEBOATS**

- Hypothermia
- Thirst
- Starvation
- Fear
- Sun exposure.
- Prevention of exposure to the elements and external agents.
- Exposure to the elements.
- Physiological alteration and damage.
- Other external agents. Poisonous or harmful fauna, sharks, etc.
- Prevention of the effects of immersion in water.
- Effects of immersion.
- Drowning
- Hypothermia
- Psychology aboard survival craft.

## **MODULE IX**

### **PSYCHOLOGY OF SURVIVAL. PSYCHOLOGICAL ASPECTS, FEAR AND PANIC**

- Avoid undue haste.
- Remember your location.
- Appreciate life.
- Loneliness
- The will to live.
- Relationships with the group.
- The leader.
- National rescue plans and distress procedures.
- National plan.
- National rescue society assigned your country.
- Rescue Coordination Centers.
- Global Distress and Safety System.
- NAVTEX Service.
- Distress communications.
- Raft deployment devices.

## **MODULE X**

### **RELEASE DEVICES**

Manual. By release or activation.

- Automatic. By hydrostatic release device.
- Incorrect raft placement. Blocked, wedged between two masts.
- Secured to the vessel by a short halyard.
- Properly stowed life rafts on board.
- Maintaining buoyancy without a life jacket.
- Buoyancy techniques.
- Donning a life jacket in the water.
- Use of personal protective equipment for survival.
- Life rings.
- Life jackets. Permanent and inflatable.
- Thermal aids.
- Immersion suits.
- Entry into the water with a life jacket and immersion suit.
- Entry into the water technique.
- Rescue swimming.
- Swimming rescuer with a life jacket.
- Methods and preventions.
- Shipwrecked individuals.
- Swimming rescuer without a life jacket.
- Approach phases.
- Gripping and releasing techniques in the water (Skin Diver Level I).
- Towing techniques.

- Grouping and boarding techniques on survival craft.

## **MODULE XI**

### **WATERWRECK GROUPING TECHNIQUES**

- Boarding Survival Craft.
- Grouping Survivors.
- Opening the Raft and Boarding Survivors.
- Putting on Warm Clothing.
- Rope Ladders.
- Descent by Rope or Lifeline.
- Landing Nets.
- Boarding Procedures on Survival Craft from the Ship.
- Boarding Survival Craft from the Water with and without Assistance.
- Organizing Stay on Survival Craft.

## **MODULE XII**

### **PRIORITY ACTIONS**

- Buoyancy and Seaworthiness.
- Hygiene
- Rationing
- Distribution of Roles.

- Grouping of Craft.
- Group Unity.
- Procedures for Combating Hypothermia.
- Positions and Techniques.

## **MODULE XIII**

### **USE OF STANDARD EQUIPMENT ON SURVIVAL CRAFT**

- Seasickness Pills.
- Knife
- Tow Rope.
- Light
- Inflation Bellows.
- Overpressure Valves.
- Slings
- Bilders
- Repair Equipment Graduated Beaker.
- First aid kit
- Flashlight
- Heliograph
- Floating guide (Kettle).
- Water
- Rainwater collection system.

- Food
- Fishing tackle.
- Thermal aids.
- Antenna
- Radar transponder.
- Radar reflector.
- Pyrotechnic signals.
- Use of pyrotechnic signals on board.
- Survival craft righting methods.
- Righting a lifeboat.
- Righting a life raft.
- Survival in case of burning hydrocarbons in the water.
- Techniques and precautions.

**END OF COURSE**