



## **“RACON” COURSE. RADIO COMMUNICATIONS TECHNICAL / TACTICAL COURSE**

### **MODULE I**

#### **GENERAL CONCEPTS**

- Radio Frequency
- Factors Influencing Telecommunications
- Band Classification
- Band Characteristics
- Radio Transmitter

### **MODULE II**

#### **RADIO EQUIPMENT**

- Types
- Antennas
- Components of Radio Equipment
- Antenna Placement
- Dimensions
- Types of Antennas
- Accessories (Headphones, Microphones)
- Batteries
- Types of Batteries

- Repeaters
- Communication Satellites

### **MODULE III**

#### **RADIO TRANSMISSION OPERATIONS**

- Radio Equipment Preparation. Parameter Selection
- Using the PTT
- Radio Jargon (ICAO), Q Code, Code 10, Other Codes
- Choosing Call Signs
- Designating Points and Targets
- Transmission Modes
- Squelch Systems
- Alternative Methods Mobile telephony
- Digital communications
- GPS data transmission
- Transmission security. Secure modes. Scrambler
- Distress alert management

### **MODULE IV**

#### **TACTICAL COMMUNICATIONS**

- Interception
- Radio frequency detection
- Radio location direction detection

- Jamming
- Transmission security and countermeasures
- SIGSEC techniques
- Emission security/control
- Transmission security
- Encrypted security
- Special considerations and secure interoperability techniques
- Physical security
- Jamming, obvious jamming. Subtle Jamming
- Interference Reporting

#### The Purpose of MIJI Reports

- Transmitting MIJI Reports
- Communications Hierarchy

### **MODULE V**

#### **OPERATION IN UNUSUAL CONDITIONS**

- Jungle Operations
- Techniques for Operating in the Jungle
- Equipment Maintenance in the Jungle
- Using Antennas in the Jungle
- Operations in Desert Areas
- Techniques for Operating in the Desert
- Equipment Cooling

- Batteries
- Electrical Insulators
- Condensation
- Static Electricity
- Preventive Maintenance in Desert Areas
- Operations in Mountainous Areas
- Operations in Urban Areas

## **MODULE VI**

PLANNING - Pre-Planning Checklist

**END OF COURSE**