

RADIOBEACON EQUIPMENT AND PERIPHERALS

DURATION: 3 DAYS



AUDIENCE:

This training course is intended for technical personnel who wish to expand their knowledge or discover the principles of radiocommunications based on TELERAD radiobeacon equipment.

PREREQUISITES:

Training accessible to anyone who understands the basics of analogue and digital electronics. Holder of electrical accreditation for the practical work section.

OBJECTIVES:

Master the principles of operation, and commission and maintain a TELERAD radiobeacon. Handle the equipment, acquire the principles for configuration and measurement.

1ST MODULE: FUNDAMENTAL PRINCIPLES AND GENERAL PRESENTATION

- General operating principles for radiobeacons:
 - Applicable ICAO standard
 - Electrical and mechanical characteristics
 - Carrier modulation modes, propagation of the electromagnetic wave
- Presentation of TELERAD radiobeacons:
 - Terrestrial radiobeacon/Locator: RBT9300
 - Transportable radiobeacon: RBT9300MS
 - Offshore radiobeacon: RBT9300P
 - Terrestrial radiobeacon/Route: RBT9400
- Architecture of a TELERAD radiobeacon:
 - Transmission
 - The antenna
 - Reception
 - Remote control



2ND MODULE: TRANSMISSION SECTION PRESENTATION OF THE COMPONENTS

- The EBTxxx transmitter
- The BRBxxx automatic switching unit
- The PGMxxx programmer
- For each of the components:
 - Electrical characteristics
 - Operational description
 - Measurement methods / Adjustments
 - Handling and tests
- Installation in a rack or waterproof cabinet:
 - Integration - interconnection of equipment
 - External connections
 - In practice: adjustments, measurements, tests

3RD MODULE: ANTENNA SYSTEM SECTION

- The different antennas:
 - "Daisy" Antenna
 - "Umbrella" Antenna
 - "Whip" Antenna
- For each of the antennas:
 - Electrical characteristics
 - Mechanical assembly constraints
 - Connection to the radiobeacon
 - Adjustments and tests
- The UAA automatic tuning unit for "Daisy" antenna
- The DAA automatic tuning unit for "Umbrella" antenna
- For each of the tuning systems:
 - Electrical characteristics
 - Operational description
 - Measurement methods / Adjustments
 - Handling and tests



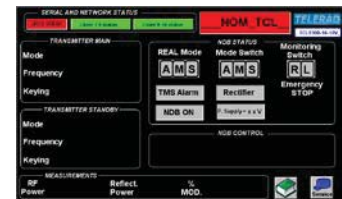
4TH MODULE: RECEPTION SECTION



- The RCB receiver:
 - Electrical characteristics
 - Operational description
 - Measurement methods / Adjustments
 - Handling and tests

5TH MODULE: REMOTE SUPERVISION SECTION

- The TSV9400 remote supervision system:
 - Operating principle
 - In practice
- The TCL9300/PPC9300-4 remote supervision system:
 - Presentation



DOCUMENTATION

Each participant will be provided with hard copies of the course materials during training.

MAXIMUM NUMBER OF TRAINEES

8 people

INFORMATION

- Contact: Jean-François Iriart
- E-mail: formation@telerad.fr
- Tel: +33 (0)5 59 58 55 00
- Sheet available on the website: www.telerad.fr

REGISTRATION

Using the attached form

DATES

On demand

LOCATION

TELERAD