

SOFTWARE RADIO EQUIPMENT 9000-2G SERIES

DURATION: 5 DAYS



AUDIENCE:

This training course is intended for technical personnel specialising in electronics who wish to gain knowledge about the principles of radiocommunications based on radio equipment from the 9000-2G series.

PREREQUISITES:

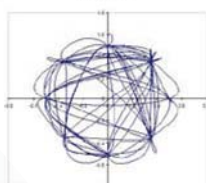
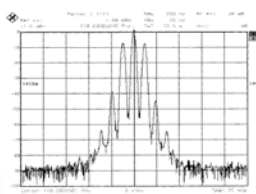
Training accessible to anyone who understands the basics of analogue and digital electronics. Holder of electrical accreditation for the practical work section.

OBJECTIVES:

Understand the SESAR project.
Understand the modes of the 9000-2G series.
Master the principles of operation of 9000-2G series transmitters and receivers.
Handle the equipment, acquire the principles for configuration and measurement.

ADDITIONAL TRAINING(S):

VoIP ED-137-B VSIM Simulator.



1ST MODULE: THE MODULATION MODES OF THE 9000-2G SERIES

- General aspects of a transmission system
- Presentation of digital modulation:
 - Real modulation
 - Complex modulation
- The Voice over IP (VoIP)
- Principles of frequency modulation
- The modes of the 9000-2G series:
 - The A3E, F3E, G3E modes
 - The ACARS mode
 - The VDL 2 mode

2ND MODULE: OPERATING PRINCIPLE FOR A 9000-2G SERIES TRANSMITTER

- Equipment architecture
- General characteristics
- Hardware and operational analysis of the transmitter
- Local operation of the equipment from the Man-Machine Interface (MMI)
- RS 232 terminal commands
- Remote operation from an analogue source
- SNMP (Simple Network Management Protocol) monitoring
- Maintenance of the device



3RD MODULE: OPERATING PRINCIPLE FOR A 9000-2G SERIES RECEIVER



- Presentation of the equipment
- General characteristics
- Hardware and operational analysis of the receiver
- Local operation of the equipment from the Man-Machine Interface (MMI)
- RS 232 terminal commands
- Remote operation from an analogue source
- SNMP (Simple Network Management Protocol) monitoring
- Maintenance of the device
- The "SCT": Detecting simultaneous transmissions

4TH MODULE: PRACTICAL WORK ON THE RADIO EQUIPMENT

- Presentation of the test bench
- Programming and measurement of an EM9000-2G transmitter
- Programming and measurement of an RE9000-2G receiver
- Establishing a transmission/reception radio link

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