Voice over IP (VoIP)

DL TC77

Objectives:

Training of an installation and maintenance technician for IP telephony systems able to:

- know the principles, the standards and the devices normally used in the VoIP.
- Install VoIP systems in existing IP networks.
- Perform the maintenance, the troubleshooting, the tests on VoIP systems.

Educational Path:

The Educational Path of the Training Package covers the following subjects:

- **Traditional telephony (PSTN) and Voice over IP**
  Traditional telephony (PSTN), The transmission of signals on the telephonic network, Telephonic signalling, VoIP: introduction, Protocols, Pros and Contras.
- **Traditional telephony (PSTN)**
  The telephonic device, Speech encoding, Transmission and switch-over, User signalling, Signalling between centrals.
- **VoIP: Introduction**
  How VoIP operates, VoIP protocols, Encoding and compression, Signalling, Audio transport.
- **VoIP: advanced features**
  SIP protocol: structure and function, The delay in VoIP communication, VoIP quality of service.
- **VoIP devices: Access gateway**
  How VoIP operates, VoIP protocols, Encoding and compression, Signalling, Audio transport.
- **VoIP Communication with Access Gateway**
  Realisation of a VoIP system, Assigning telephone numbers, Routing table configuration, Setting 'voice' parameters.
- **VoIP Signalling using a SIP Server**

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Structure of the system, The SIP Server, Configuration of the SIP Server.

Composed of:

DL TC77-VG: VoIP Gateway (Quantity 2)

- 2 off analogue ports.
- Support for analogue telephones PSTN/PBX (FXS).
- Protocols VoIP MGCP, H.323 and SIP.
- Network interface 10/100 base-TX.
- External power supply.

DL TC77-PH: Analogue Telephone (Quantity 2)

- Display and keyboard.
- Internal memories.
- Line cable RJ11.
- External power supply.

Complete with all accessories and cables and Software package with theory, simulations and questions based on Web technology.

Necessary accessory (not included):

- N.2 Personal Computer with Ethernet network interface and Windows Operating System.

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