

MDR 8000

Digital Microwave Radio

Course Length	Two Days
Prerequisites	A fundamental understanding of telecommunications transmission principles will be useful for students taking this course.
Course Objectives	A customized class based on the Alcatel MDR8000 microwave radio system. The class will cover hardware and software operating parameters including installation, provisioning using the USI and maintenance procedures.

COURSE OUTLINE

Introduction to MDR Series Radios

- Terminal Configurations
- Radio Inventory
- Physical Layout
- Power Connections
- Alarm Connections
- Fan Module

Common Equipment

- Functional Inter-connections
- Power Supplies
- Controller Card
- Orderwire – Wayside
- Connection Backplanes
- Line build-out – LBO
- Splitters and Combiners

Antenna Connections

- Antenna Coupling – overview
- Filters - Circulators – Isolators
- Switching
- Stack Loss
- Space Diversity
- Frequency Diversity

Transmitter

- Block Diagrams
- UD-35 RF Modules
- UD-51 Power Amplifier
- Analog & Digital Paths
- ATPC
- Ref Osc. Adjustment
- TX Power Measurement

Receiver

- Receiver Blocks
- Demodulation Paths
- RSL Testing
- Measuring BER
- Ref. Osc. Adjustment
- Common Loss Alarm - CLA

USI Interface – Network Management

- MCS-11 Networks
- USI Connections
- Terminal Provisioning
- Traffic Configurations
- Status – Alarms
- Control Functions
- Performance Monitoring

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