MPS014 - ASTRO XTL 5000 Mobile Radio (2006)

Dates:  
- 1 Day

Location:  
- Scottsdale, AZ

Cost:  
- $950.00

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Course Overview
This course is focused on the concepts, procedures and programming parameters specific to the XTL 5000 mobile radio. Previous knowledge of general radio circuit alignment procedures (like Reference Oscillator, Power) and basic radio programming (concepts of Zone, Personality, Radio Wide parameters, etc) is assumed. Participants will learn how to identify, program, checkout, align, disassemble and troubleshoot this class combines lecture, practical examples and labs, with emphasis on the hands-on aspects and the parameters and procedures that differentiate the XTL 5000 from other models.

Prerequisites:
- Completion of the following courses:
  - CPS Programming and Template Building Overview (ADT001-V) or Test Programming and Template Building Overview (ADT001-T)

- Completion of the following courses or equivalent experience:
  - Communication Systems Concepts (NST021)
  - Radio Systems Overview (RCS002-E)
  - Theory of Radio Operations (RCS003-E)

Audience:
- Radio Technicians

Course Objectives:
- Disassemble and reassemble the radio in accordance with proper procedure
- Demonstrate knowledge of the programming parameters that are particular to this radio
- Conduct performance checks on the radio to ensure that it is operating within its specifications
- Perform the alignment procedures of an XTL 5000 radio
- Describe the theory of operation of an XTL 5000 radio in comparison to other similar models

Benefits to You:
- Reduce downtime due to failures
- Ability to successfully maintain a fleet of XTL 5000 radios
- Quickly determine what repairs are necessary and what action is required
- Product-focused training that takes advantage of your previous knowledge associated with other radios

Course Outline:

- Disassembly/Reassembly of the XTL 5000 radio
- Alignment procedures:
  - Tx Deviation balance compensation
  - Tx Deviation limit
  - PA Bias
  - Tx Power Characterization
  - Power Detection Calibration
  - Front End Filter for 800 MHz radios
- CPS Programming (Specific to the XTL 5000)
  - Parameters for ASTRO 25 Trunking systems
  - Manipulation of Conventional personalities in the ASTRO 25 mobile CPS
  - Radio Wide options specific to the XTL 5000
- Troubleshooting tips and recent SRN's
- Test Points
  - List of Test Points
  - Expected values of Test Points
  - Measurement of Test Points
- Model Specific Theory
  - Astro Transmitter and Receiver theory of operation
- Receive Signal Flow
- Transmit Signal Flow
- Power amplifier theory of operation
  - Controller Theory of operation
- Patriot IC and support circuitry
- Controller Transmit audio path
- Controller Receive audio path
- Control Head Theory of operation

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For additional information, questions or needs, please call (847) 538-7999.