EHT003 - ASTRO XTS 5000 Digital Portable Radio (2006)

Dates: [Details]

Location: [Details]

Cost: [Details]

TO REGISTER, CLICK ON THE URL: [Details]

Course Overview
Participants will learn how to identify, program, checkout, align, disassemble and assemble the radio. The radio's power routing, recommended test equipment and service performance checks, and radio alignment procedures will be covered. The troubleshooting portion of the class will consist of a review of procedures using charts, waveforms. The class will be taught using a balance of lecture, practical examples and labs.

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:
- Program the operation of an XTS 5000 radio with Customer Programming Software
- Conduct performance checks on the radio to ensure that it is operating within specifications
- Align the radio’s operating parameters using the tuner software
- Disassemble and reassemble the radio in accordance with proper procedure
- Understand the circuit theory of operation
- Use the theory of operation to isolate faults found to both the board and the

Benefits to You:
- Reduce downtime due to failures
- Ability to successfully maintain a fleet of radios
- Quickly determine what repairs are necessary and what action is required

Course Outline:
- Product Introduction
- Identify the XTS 5000 models and physical features of the radio
- Overview of radio's basic operating specification

- Customer Programming Software
- Performance Check
- Overview of test equipment and service aids used to service the XTS 5000 a test equipment control settings
  - Initial test equipment control settings
  - Learn about the built-on RF and Control Head test modes of the radio
  - Receiver and transmitter performance checks
- Radio Tuner Alignment
- Disassembly and Reassembly Procedure
- Theory of Operation ASTRO Project 25
  - Basic functional description
  - DC voltage distribution
  - Controller circuit
  - Receiver signal/data flow
  - Transmitter signal/data flow

**Target Audience**
Technicians

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