

Motorola APX Radio Programming

Time required: 24 hours (3 days)

3 Days 0830-1630

Register at: <https://www.surveymonkey.com/r/9T2N2PN>

September 25-27

Crow Wing County Law Enforcement Center,
Dick Ross EOC – Conference Room
304 Laurel Street,
Brainerd, MN 56401

October 23-25

Leech Lake Tribal Police.
Northern Lights Casino Hotel and Event Center
6800 Y Frontage Road NW,
Walker, MN 56484

November 27-29

Olmstead County EOC,
1421 3rd Avenue SE,
Rochester, MN 55902

This three day Motorola APX Radio Programming Course will prepare students to program Motorola APX mobile and portable radio equipment. A combination of classroom instruction and practical exercises will be utilized to accomplish course objectives.

Course curriculum meet these requirements, via the outline provided below.

A. APX Portables

1. Models and types
2. Specifications
3. Software Features
4. Ergonomics – Button and Switch layout
5. Bluetooth Features
 - i. Bluetooth mics
 - ii. Bluetooth earpieces
6. SCBA Integration
7. IP Ratings for devices

B. APX Mobiles

1. Models and types
2. Specifications
3. Features
4. Ergonomics – Button and Switch layout
5. Bluetooth Features
6. Console/Control Station use

C. Hazardous Location (HazLoc)

1. FM vs. UL
2. Device marking changes
3. Class/Division/Groups
4. UL Battery software detection

D. Trunking 101

E. Vocoders

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F. Registration / Affiliation

G. Channel Assignment

H. Talkgroups / Multigroups / Agencygroups

I. Roaming

1. RSSI

J. Site Preferencing

K. Continuous Assignment Updating

L. ASTRO/Smartzone/Omnalink

1. IV&D Features
2. Location Services
3. Simulcast / Multicast
4. Operational / Failure modes

M. Fleetmapping Overview

1. Priority Levels
2. Emergency Modes
3. Trunked Systems / Personalities
4. Conventional channels
5. Statewide / National frequencies
6. Zone / Channel assignment

N. Encryption

1. Algorithms
2. Standards
3. Key loading
4. KVL3000 / 4000 / 5000

O. Radio Profiles

1. Noise Suppression

P. Radio Software Update

Q. Radio Programming Labs

1. Software / Hardware Requirements
2. Code Plug build from factory default
3. Zone Channel Assignment
4. Voice Announcement Creation and Assignment
5. Unified Call Lists
6. Cloning

R. Scanning

1. Modes
2. Priority Monitor
3. Requested Sites

S. Basic Troubleshooting