

ARMER System Administrator

Time required: 24 hours (3 days)

September 18-20	Wright County Tactical Training Center Conference Room 5577 Co. Rd. 35 W., Maple Lake, MN
October 18-20	Goodhue County Law Enforcement Center 430 West 6 th Street, Red Wing, MN 55066
November 13-15	St. Louis County Emergency Operation Center 5735 Old Miller Trunk Highway, Duluth, MN 55811
December 18-20	St. Cloud City Hall 1201 7th St S, St Cloud, MN 56301

To register: <https://www.surveymonkey.com/r/WTKNB92>

System Administration Training is for individuals who have yet to be trained for ARMER system administration tasks. Both classroom and hands-on system administration functions will be utilized to accomplish training objectives.

A. ARMER Trunking 101

1. ASTRO 25 System Functionality
2. Smartzone/Omnalink
3. Basic system diagrams and hardware components

B. ARMER SECB Standards

C. Radio Calls

1. Call Processing
 - i) Talkgroup
 - ii) Multigroup
 - iii) Agencygroup
 - iv) Emergency
 - (1) Tactical
 - (2) Revert
 - (3) Ruthless Preemption
 - (4) Top of Queue
 - v) Private Call
 - vi) Telephone Interconnect

D. Encryption

1. Modes
2. Operation
3. Common Key Reference

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4. Key Variable Loader (KVL) Operations

E. Scanning

1. Priority Monitor
2. Requested Sites
3. Conventional Scan
4. Talkgroup Scan
5. Intelligent Priority

F. Call Alert vs Private Call

G. Roaming

1. Call Priority Levels

H. Basic MCC7500 Console Functionality

1. Talkgroup/Multigroup Operations
2. Emergency Modes
3. Console Priority
4. Talk Over
5. Talk Under
6. Audio Interrupt
7. Audio Patch Operation

I. Logging

1. IP vs. Analog "Recorder vs. Logger"
2. Configuration
3. Archiving Interface Server
4. Firewalls

J. MCC7500E Consoles

1. Setup and Configuration
2. Hardware
3. AIM vs. USB
4. Peripherals
5. IRNI vs ORNI
6. PM setup
7. Networks

K. Private Radio Network Manager Overview

1. Hardware/Software Requirements
2. PC Running Windows 10
3. Network connection on RNI
4. ARMER Allowable Hardware and use policy

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5. Standards

L. ARMER System ID and WACN

M. ARMER Naming Conventions

N. Motorola PRNM Suite of Applications

1. Provisioning Manager
2. System Historical Reports
3. Affiliation Display
4. ATIA Log Viewer
5. Dynamic Reports
6. Zone Historical Reports
7. Radio Control Manager (RCM) Reports
8. Radio Control Manager (RCM)
 - i. Radio Commands
 - ii. Dynamic Regrouping and Storm Plans
 - iii. Radio Checks
 - iv. Monitoring Status and Events
 - v. Inhibiting Radios
 - vi. Selector Locking Radios
 - vii. Passive Mode
 - viii. Zonewatch
9. Unified Event Manager (UEM)
10. License Manager

O. Provisioning Manager

1. Security Group Structure
2. System Partitioning
 - i. Login process
 - ii. Logout Process
 - iii. Creating and Applying Search Filters
 - iv. Exporting List Views
 - v. Sorting Views
 - vi. Profiles
 - vii. Usage
 - viii. Applications
 - ix. Distributing Changes
 1. Status indication
 - x. Jobs view
3. Talkgroup Configuration
 - i. Add/Edit/Delete
 - ii. TG/MG Capabilities Profile configuration
 - iii. TG/MG Site Access Profiles

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4. Multigroup Configuration
 - i. Add/Edit/Delete
5. Agencygroup Configuration
 - i. Add/Edit/Delete
6. Trunked Subscriber Configuration
 - i. Add/Edit/Delete a Radio
7. Site Access Denial Methods
 - i. Talkgroup
 - ii. Radio
 - iii. Both
8. Batch Operations
9. Radio Capabilities Profiles
10. Radio Site Access Profiles
11. Encryption and CKR usage
12. Conventional Subscriber Configuration
 - i. MDC and ASTRO Conventional
 1. Add/Edit/Delete
 2. Alias
 3. IDs
13. MCC7500 Console Systems
 - i. Operator Position Definitions/Parameters
 - ii. Modifying Console position fields
 - iii. Adding Security Group Objects
 - iv. Console TG/MG Capability Profiles
 - v. Console User Capability Profiles
 - vi. Encryption
14. CKR Structure
 - i. Encryption Algorithms
 - ii. System/Regional/Local
 - iii. Assignment to Resources
 - iv. Loading Keys in VPMs
15. Paging
 - i. Add/Edit/Delete
 - ii. Changing page names
 - iii. Changing page codes
16. Group Pages
17. Individual Pages
18. Timing
19. Pre-programmed pages; assigning page objects to channels
20. Auxiliary Input/Outputs (AUX I/Os)
 - i. Add/Edit/Delete
 - ii. Aux I/O Server
 - iii. Aux I/O Ports

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- iv. Change Names
- v. Aux I/O Interlocked Groups
- 21. Backup Dispatch Site Controller
- 22. Conventional Resource Channels
 - i. CCGWs; What are they and do I have any?
 - ii. 3 Types
 - iii. Add/Edit/Delete
 - iv. ARMER System requirements
 - v. Changing Names of Conventional Channels
 - vi. CCGW Port assignment Structure
- 23. Storm Plans

P. License Manager

- 1. Viewing Inventory
- 2. Viewing Logged in Users
- 3. Force Releasing Session Licenses from Other Users

Q. Unified Event Manager (UEM)

- 1. Overview
- 2. Logging in
- 3. Viewing Status
- 4. Console Devices
- 5. Alarms Only displayed when active
- 6. Events-always displayed
- 7. Sending Commands

R. Management Software

- 1. Configuration Service Software (CSS)
- 2. Installation and Usage
- 3. CSS into a VPM
- 4. CSS into a repeater
- 5. View logs
- 6. View status

S. Software Download Manager (SWDL)

- 1. Installation and Usage

T. BasicNetwork Troubleshooting

- 1. IP scheme
- 2. Consoles: 10.zone#.site#.device
- 3. Repeaters: 10.100+zone#.site#.device
- 4. Telnet
- 5. Viewing Links status using "sh wanc"

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6. View Ethernet status using “sh -sys stat -pa
7. Ping
 - i. Difference between “Request Timed Out” and “Destination Unreachable”
 - ii. Determine what Device is being Pinged with “-a”

U. Course Prerequisites

System Administer (PRM) Training	Radio 101
	Trunking 101
	History of ARMER
	Interoperability 101
	Dispatch Application Part 1 & 2