

14.11 Training Plan / Matrix (Rev 3)

The following Training Plan/Matrix represents the courses that will be delivered to the Commonwealth.

COURSE	GROUP	NUMBER OF SESSIONS	DURATION (days)	LOCATION	DATE	NUMBER OF ATTENDEES
Executive System Overview	General	5	1	Richmond, VA	2004/2007	12 per session
Communication System Concepts	System Administrators System Managers Technicians	1	5	Richmond, VA	2005	12 per session Note 1
Bridging the Knowledge Gap	System Administrators System Managers Technicians	1	5	Richmond, VA	2005	12 per session Note 2
Site Installation Practices (R56)	System Managers Technicians	2	5	Richmond, VA	2005/2006	12 per session
Premier AVL Server	System Administrators	1	2 hours	Richmond, VA	2006	6 per session
Premier MDC System Manager	System Managers	1	4 hours	Richmond, VA	2006	6 per session
In-Tunnel Communications – System Manager	System Managers	2	1	Richmond, VA	2006	12 per session
Communications Planning for ASTRO 25 Systems	System Managers	1	2	Richmond, VA	2005	12 per session Note 1
Networking Essentials in Motorola Communications Equipment	System Managers and Technicians	5	5	Schaumburg, IL	2005/2008/2009	12 per session
Networking for ASTRO 25 IV&D Systems	System Managers and Technicians	5	5	Schaumburg, IL	2005/2008/2009	12 per session
Understanding Your ASTRO 25 IV&D System	System Managers and Technicians	5	2	Schaumburg, IL	2005/2008/2009	12 per session
ASTRO 25 IV&D Radio Network Management Workshop	System Managers and Technicians	2	10	Schaumburg, IL	2005/2008	12 per session
ASTRO 25 IV&D Trunking Technical System Workshop	Technicians	5	10	Schaumburg, IL	2005/2008/2009	12 per session



COURSE	GROUP	NUMBER OF SESSIONS	DURATION (days)	LOCATION	DATE	NUMBER OF ATTENDEES
ASTRO 25 IV&D Site Repeater Workshop	Technicians	5	5	Schaumburg, IL	2005/2008/2009	12 per session
ASTRO 25 Conventional Maintenance and Troubleshooting	Technicians	5	5	Schaumburg, IL	2005/2008/2009	12 per session
Transportable Training	Technicians	1	1	Richmond, VA	2005	6 per session
Diesel/Gas Generators Under 200 kW	Technicians	1	1	Richmond, VA	2005	12 per session
Transmitter and Multicoupler Maintenance	Technicians	1	3	Richmond, VA	2005	12 per session Note 3
MOSCAD Fault Management System Maintenance	Technicians	1	2	Richmond, VA	2005	12 per session Note 3
CENTRACOM Gold Elite	Technicians	4	5	Schaumburg, IL	2005/2008/2009	12 per session
NetClock Technical Training	Technicians	1	1	Richmond, VA	2005	12 per session
Pallas Installation and Maintenance /Programming	Technicians	5	5	Richmond, VA	2005/2008/2009	8 per session
Pallas Installation and Maintenance / Admin	Technicians	5	5	Richmond, VA	2005/2008/2009	8 per session
Wordnet Logging Recorder	Technicians	3	3	Richmond, VA	2005/2008/2009	12 per session
ML900 Maintenance and Programming	Technicians	1	3	Richmond, VA	2005	12 per session Note 2
Quantar Base Stations	Technicians	5	3	Richmond, VA	2005/2008/2009	12 per session



COURSE	GROUP	NUMBER OF SESSIONS	DURATION (days)	LOCATION	DATE	NUMBER OF ATTENDEES
XTS2500, XTS5000, XTL5000, XTL2500, DVRS, DEK	Technicians	4	9	Richmond, VA	2005/2008/2009	12 per session
Radio Programming and Template Building	Technicians	1	3	Richmond, VA	2005	12 per session
VHF Linknet, 800 Linknet, and Line Amplifiers	Technicians	1	1	Richmond, VA	2005	12 per session
Premier MDC Programming and Template Building	System Administrators	1	1	Richmond, VA	2005	5 per session
Remote Monitoring and Control of In-Tunnel RF Systems	Technicians	1	1	Richmond, VA	2005	12 per session
In-Tunnel Preventative Maintenance	Technicians	2	1	Richmond, VA	2005	12 per session
CM Digital Microwave Radio	Technicians	5	5	Richmond, VA	2005/2008/2009	12 per session
Proteus AMT Digital Microwave Radio	Technicians	5	2	Richmond, VA	2005/2008/2009	12 per session
Fujitsu 4100 Turn-Up and Maintenance	Technicians	5	2	Richmond, VA	2005/2008/2009	12 per session
Fujitsu 4300 Turn-Up and Maintenance	Technicians	5	4	Richmond, VA	2005/2008/2009	12 per session
Fujitsu Netsmart 1500 User Operation	Technicians	5	2	Richmond, VA	2005/2008/2009	12 per session
Premier MDC Operation Train the Trainer	Designated Trainers	3	1	Richmond, VA	2005/2008/2009	12 per session
CENTRACOM Gold Elite Operator (Conventional) Train the Trainer	Designated Trainers	3	1	Richmond, VA	2005/2008/2009	12 per session
CENTRACOM Gold Elite Operator (Trunking) Train the Trainer	Designated Trainers	3	1	Richmond, VA	2005/2008/2009	12 per session



COURSE	GROUP	NUMBER OF SESSIONS	DURATION (days)	LOCATION	DATE	NUMBER OF ATTENDEES
VESTA Pallas End User Train the Trainer	Designated Trainers	3	4	Richmond, VA	2005/2008/2009	8 per session
XTS2500, XTS5000, XTL5000, XTL2500, DVRS, DEK Train the Trainer	Designated Trainers	1	3	Richmond, VA	2005	12 per session
Wordnet Logging Recorder User Train the Trainer	Designated Trainers	1	2	Richmond, VA	2005	12 per session
MOSCAD Fault Management Operator Train the Trainer	Designated Trainers	3	1	Richmond, VA	2005/2008/2009	12 per session
CENTRACOM Gold Elite ADMIN/ADM	System Managers/System Administrators	1	1	Richmond, VA	2005	12 per session Note 1

Note 1: A total of forty-one (41) sets of standard training documentation will be provided for this class.

Note 2: A total of sixty-five (65) sets of standard training documentation will be provided for this class.

Note 3: A total of fifty-three (53) sets of standard training documentation will be provided for this class.

14.51 Facilities Operation and Maintenance *(Deleted Mod. #1 Rev.)*

Target Audience Facility Personnel

Course Description ~~This course covers the operation and maintenance of the facility.~~

Required Pre-Work ~~Substantial Completion of Construction Activities by Contractor, Employment and/or assignment of facilities and maintenance staff~~

Recommended Prerequisites ~~Maintenance, Facilities Operations or Construction Experience~~

Course Objectives ~~The objective of this training is to familiarize those that will be responsible for the continuing operation and maintenance of the facilities with the equipment and installations that comprise the new buildings and additions (exclusive of radio, communications and data transmission equipment), focused primarily on the mechanical/electrical systems and any architectural, civil or structural items that will require continuing, specialized maintenance or that will require specialized and/or specific maintenance to maintain the manufacturers warranties. This training is designed for maintenance and service workers and their supervisors.~~

I. ~~Building Structure~~

A. ~~Site~~

1. ~~A review will be made of the as-built plans as they relate to the installation with particular focus on the utility tie-in points, drainage and required preventive and predictive maintenance~~

B. ~~Concrete~~

1. ~~A cursory review of the materials incorporated into the project and any restricted general maintenance processes and/or products.~~

C. ~~Masonry~~

1. ~~A cursory review of the materials incorporated into the project and any restricted general maintenance processes and/or products.~~

D. ~~Metals~~

1. ~~A review will be made of the structural and miscellaneous metals as they relate to the installation with particular focus on loading and safety and any required preventive and predictive maintenance.~~

E. ~~Woods and Plastics~~

1. ~~A cursory review of the materials incorporated into the project and any recommended general maintenance processes and/or products.~~

F. ~~Thermal and Moisture Protection~~

1. ~~A cursory review of the materials incorporated into the project and any recommended general maintenance processes and/or products.~~

G. ~~Doors and Windows~~

1. ~~A review of the materials incorporated into the project and any recommended preventive and predictive maintenance.~~

H. ~~Finishes~~

1. ~~A cursory review of the materials incorporated into the project and any recommended general maintenance processes and/or products~~

I. ~~Specialties~~

1. ~~A review of the materials incorporated into the project and any recommended preventive and predictive maintenance~~

J. ~~Furnishings~~

1. ~~A review of the materials incorporated into the project and any recommended preventive and predictive maintenance~~

~~H. Elevator (if applicable at site)~~

- ~~1. A detailed review of the primary equipment, installations and maintenance required, including required on-going maintenance that may be required for governmental certifications and/or warranty preservation.~~
- ~~2. A review of additional services that are available for extended warranty, service and maintenance.~~

~~III. Mechanical/Electrical Systems~~

~~A. Standby by power system~~

- ~~1. A detailed review of the primary equipment, installations, their normal and emergency operations, and maintenance required, including required on-going maintenance that may be required for warranty preservation.~~
- ~~2. A review of additional services that are available for extended warranty, service and maintenance.~~

~~B. Uninterruptible power system~~

- ~~1. A detailed review of the primary equipment, installations, their normal and emergency operations, and maintenance required, including required on-going maintenance that may be required for warranty preservation.~~
- ~~2. A review of additional services that are available for extended warranty, service and maintenance.~~

~~C. HVAC and data grade cooling systems~~

- ~~1. A detailed review of the primary equipment, installations, their normal and emergency operations, and maintenance required, including required on-going maintenance that may be required for warranty preservation.~~
- ~~2. A review of additional services that are available for extended warranty, service and maintenance.~~

~~D. Fire detection and suppression~~

- ~~1. A detailed review of the primary equipment, installations, their normal and emergency operations, and maintenance required, including required on-going maintenance that may be required for warranty preservation.~~
- ~~2. A review of additional services that are available for extended warranty, service and maintenance.~~
- ~~3. A review of reporting characteristics and points of contact.~~

~~E. Security monitoring and detection, Access control~~

- ~~1. A detailed review of the primary equipment, installations, their normal and emergency operations and maintenance required, including required on-going maintenance that may be required for warranty preservation.~~
- ~~2. A review of additional services that are available for extended warranty, service and maintenance.~~
- ~~3. A review of reporting characteristics and points of contact.~~

~~F. Power distribution system~~

- ~~1. A detailed review of the primary equipment, installations, their normal and emergency operations and maintenance required, including required on-going maintenance that may be required for warranty preservation.~~
- ~~2. A review of additional services that are available for extended warranty, service and maintenance.~~

~~G. Grounding system~~

- ~~1. A cursory review of the equipment, installations, and maintenance required, including required on-going maintenance that may be required for warranty preservation and/or safe operations.~~

~~H. Lighting and controls~~

- ~~1. A cursory review of the equipment, installations, their normal and emergency operations and maintenance required, including required on-going maintenance that may be required for warranty preservation.~~

~~IV. Warranty and Maintenance Service Procedures~~

- ~~1. The warranties and contracted maintenance will be reviewed.~~
- ~~2. Points of Contact and emergency contact information will be reviewed.~~